REPORT OF FINDINGS FOR CONTINUED SUBSURFACE INVESTIGATION AT FORMER UNDERGROUND STORAGE TANK AREA FOR USTs #2, 3 and 4 BLUE LAKE FOREST PRODUCTS 1589 GLENDALE DRIVE ARCATA, CA LOP #12196

June 2006

Prepared for:

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Winzler & Kelly Consulting Engineers 633 Third Street Eureka, California 95501-0417 (707) 443-8326 REPORT OF FINDINGS FOR CONTINUED SUBSURFACE INVESTIGATION AT FORMER UNDERGROUND STORAGE TANK AREA FOR USTs #2, 3 and 4 BLUE LAKE FOREST PRODUCTS 1589 GLENDALE DRIVE ARCATA, CA LOP #12196

Project No. 00-1428-03.11400

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June 2006

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1.0 INTRODUCTION

Winzler & Kelly Consulting Engineers (Winzler & Kelly) has prepared this Report of Findings on behalf of Blue Lake Forest Products for submittal to the Humboldt County Division of Environmental Health (HCDEH) for review. This report presents results of continued subsurface investigation activities including borings installation on April 25 and 26, 2006 and May 15, 2006, and monitoring well installation on May 17, 2006.

A Workplan Addendum to the January 2004, Workplan for Soil Remediation at Former Underground Storage Tank Area for UST's #2, 3, and 4 was prepared in response to a November 7, 2005 letter from HCDEH recommending installation of monitoring wells within 20 feet downgradient of the identified areas of soil contamination. Then, in response to a phone conversation on March 15, 2006 between Winzler and Kelly and the HCDEH, the March 17, 2006 Workplan Addendum #2 for Installation of Four Borings and an Additional Monitoring Well was prepared to assist in defining the boundary of the groundwater TPH-D plume. In a letter dated March 21, 2006, HCDEH approved the scope of work proposed in the Workplan and the Workplan Addendums. A copy of the November 7, 2005 and March 21, 2006 letters are included in Appendix A.

This Report provides the information obtained during the implementation of the Workplan Addendums dated February 28, 2006 and March 17, 2006, which consisted of the installation of four (4) borings and two (2) monitoring wells to assist in defining the downgradient extent of TPH-D impacted groundwater.

2.0 SITE CONCEPTUAL MODEL

2.1 Site Location and Facility Description

Blue Lake Forest Products is located at 1589 Glendale Drive, in Glendale, California. Glendale is an unincorporated area located immediately north of Highway 299, approximately two miles west of Blue Lake. Most of the mill complex is located along the north side of Glendale Drive, with several buildings located along the south side of Glendale Drive (See Figures 1 & 2, Appendix B). Note that the parcel containing the former Dip Tank Building and USTs 2, 3, 4 area was sold by Blue Lake Forest Products to Bob Sholes, and subsequently by Bob Sholes to Gary Johnston.

2.2 Environmental Site History

Between the years of 1989 through 1990, eight petroleum underground storage tanks (USTs) were removed from four separate locations around the Blue Lake Forest Products (BLFP) mill site (See Figure 2, Appendix B). Several overexcavation and soil remediation activities were initially performed by the American Environmental Management Corporation (AEMC) in and around the former UST locations (See Figure 2, Appendix B). On September 1, 1998, NCI removed USTs #2, 3, and 4, three 10,000-gallon diesel USTs. The results from these activities were previously submitted to the North Coast Regional Water Quality Control Board (NCRWQCB), in reference to case #1NHU527. The HCDEH subsequently assumed lead agency status for the UST investigations, as referenced under LOP#12196. In a letter dated November

16, 1999, the HCDEH requested a Workplan to determine the extent of petroleum related impacts to the four separate UST locations on this site.

A Workplan for the Initial Hydrogeologic Investigation of USTs #1-8, Blue Lake Forest Products was prepared by Winzler & Kelly Consulting Engineers and was submitted to the HCDEH in January 2000. The Workplan proposed collecting and analyzing soil and groundwater samples from borings around each of the four UST areas. The Workplan was implemented in June 2000, as summarized in the Report of Findings Hydrogeologic Investigation of USTs #1-#8, dated October 2000. Upon review, the HCDEH requested an additional workplan to address remaining hydrocarbon impacts to portions of the site, specifically they concurred that additional investigation should be conducted to define the lateral and vertical extent of contamination in the vicinity of the former USTs #2, 3, and 4.

In June 2001, the Workplan for the continued *Hydrogeologic Investigation of USTs #1-#8*, *Blue Lake Forest Products* was prepared by Winzler & Kelly Consulting Engineers and was submitted to the HCDEH.

The Workplan was implemented on August 11-12 and 15, 2003, in an effort to define the extent of hydrocarbon impacted soil and groundwater in the vicinity of the former USTs #1, 2, 3, and 4. A summary of results are found in the *Report of Findings Hydrogeologic Investigation of USTs* #1-4, dated November 2003.

In a letter dated December 15, 2003, the HCDEH requested a Workplan for over excavation of the impacted soils and installation of monitoring wells around Tank Hold #2-4. The *Workplan for the Soil Remediation at the Former Underground Storage Tank Area for UST's #2, 3, and 4* was completed in January 2004, and approved by the HCDEH in a letter dated January 23, 2004. A Workplan Amendment, consisting of a reduction of the proposed excavation was written in April 2004, and approved by the HCDEH in a letter dated April 21, 2004. Workplan Amendment #2, consisting of changes in the soil disposal method to onsite soil treatment, was approved in a letter dated June 9, 2004. Winzler & Kelly implemented the January 2004 Workplan by excavating impacted soils during June 14 through July 2, 2004. Four Monitoring wells were installed on November 22 to November 23, 2004.

2.3 Site Geology and Hydrogeology

Well drilling records indicate that the mill area is typically underlain by several feet of gravel fill. The substrate, to depths of 30 to 40 feet, appears to consist of interbedded clays, silts and sands, generally as a clayey mix, with interbeds of gravels-cobbles. Silty sands are variously described as gray, brown and black. Clays are commonly described as gray, greenish, and rusty orange (iron stained), with some organic rich clays noted in the flatter site areas. Gravels are described as rounded and/or fractured. The substrate in this area may represent old river terrace deposits and/or valley alluvium.

Noisy/Mill and Hall Creeks flow southward out of the foothills and converge into Mill Creek approximately 1,500 feet east of the mill site and just north of Glendale Drive. Mill Creek then continues southwesterly towards the Mad River, passing about 550 feet southeast of the mill site. Lindsay Creek is located approximately 2,500 feet to the north and northwest. All creeks and drainage courses in the area flow south-westerly into the Mad River channel, which is located

about 1,100 feet southwest of the mill. Surface drainage across the mill site is typically to the south, towards the Mad River.

During implementation of the initial Workplan in June 2000, groundwater levels in the exploratory borings were measured for each of the investigated areas. The June 2000 depth-to-water levels encountered in the borings generally ranged from 7 to 13 feet below ground surface (bgs). Previous monitor well records across this site indicate that seasonal lows in water depths may approach 33+ feet bgs. During implementation of the *Workplan for the Soil Remediation at the Former Underground Storage Tank Area for USTs #2, 3, and 4* dated January 2004, groundwater levels in the excavation were encountered at 12 feet bgs. Quarterly monitoring of onsite wells indicate depth to water between 3.73 and 12.05 feet bgs. Based on quarterly monitoring data collected from the on-site monitoring wells, the groundwater gradient averages approximately directly south at an average slope of 1.60 ft per 100 feet (see Table 5, Appendix C)

2.4 Changes in Distribution of Chemicals

Underground storage tank holding area for USTs # 2, 3 and 4 formerly held three 10,000 gallon diesel USTs (See Figure 3, Appendix B). The tanks were removed by NCI on September 1, 1989. Soil from the common tank hold was subsequently overexcavated, remediated and disposed onsite under approval of the NCRWQCB. Excavation of the common tank hold ranged between 3 and 15 feet below ground surface (bgs). AEMC installed borings B-1, B-2, and B-3 in 1990 through the former tank pit. TPH-D was reported in the soil in all borings at levels up to 903 ppm. No groundwater sample results were reported for these borings.

Eight borings (B2-1 through B2-8) were drilled around the perimeter of the tank hold in June 2000. Soil and groundwater samples were collected and the analytic results were reported in the October 2000, *Report of Findings*. All of the borings except B2-3 indicated positive hydrocarbon impacts to the groundwater (See Table 1, Appendix C). Also, with the exception of boring B2-3, all of the borings indicated some positive response for hydrocarbons in the soils (see Table 2, Appendix C).

The Continued Hydrogeologic Investigation was conducted in August 2003 to attempt to fully delineate the soil and groundwater impacts in the vicinity of the tanks. Groundwater samples taken from borings B2-12, B2-12A, B2-12B, B2-12C and B2-13 contained concentrations of TPH-D at 30,000 ppb, 150,000 ppb, 2,100 ppb, 6,800 ppb and 31,000 ppb, respectively and concentrations of TPH-G at 200 ppb, 300 ppb, 220 ppb, 120 ppb and 220 ppb, respectively (Table 1, Appendix C). Total lead was detected in all of the August 2003 borings at concentrations up to 1,500 ppb. Borings B2-12B and B2-12C were run for dissolved lead (sample is filtered through 0.45 micronfilter prior to analysis) and total lead. The dissolved lead results were below the detection limit of 10 ppb for both samples and were 170 and 850 ppb for total lead, respectively. MTBE was not detected in any of the groundwater samples collected during the boring installation.

Also as part of the August 2003 hydrogeologic investigation thirty-three soil samples were collected from borings B2-9, B2-10, B2-12, B2-12A, B2-12B, B2-12C, B2-13 and B2-13A. Soil samples were collected at five, ten, fifteen and twenty feet bgs. The soil samples collected during construction of borings B2-9, B2-10, B2-13 and B-13A did not report any of the tested constituents at concentrations above laboratory detection limits. The soil samples collected from borings B2-12,

B2-12A, B2-12B and B2-12C at a depth of fifteen feet bgs contained concentrations of TPH-D at 150 ppm, 8.5 ppm, 5.0 ppm and 170 ppm, respectively. The soil samples collected from borings B2-12A, B2-12B and B2-12C at a depth of twenty feet bgs contained concentrations of TPH-D at 900 ppm, 600 ppm, and 180 ppm, respectively (Table 2, Appendix C). Benzene, toluene, ethylbenzene, xylenes and MTBE constituents were not reported in any of the soil samples collected during the boring installation. Boring locations are shown on Figure 3, Appendix B and soil analytical results are presented on Table 2, Appendix C.

The November 2003 Report of Findings for the Hydrogeologic Investigation concluded:

- Fairly extensive diesel impacts remain in the soil around Tank Hold 2-4 with concentrations up to 3,400 ppm.
- The soil impacts around Tank Hold 2-4 have been defined in the southwest, west, north, and easterly directions. Impacts in the southeasterly and southern directions have not been fully defined.
- Diesel impacts to the groundwater around Tank Hold 2-4 were reported up to concentrations of 150,000 ppb.
- Groundwater impacts around Tank Hold 2-4 have been defined in the southwestern, west, north, northeast and eastern directions. The plume remains to be defined in the southern and southeasterly directions.

Winzler and Kelly excavated 3,400 C.Y. of impacted soil during June 14 through July 2, 2004. The extent and depth of excavation is shown on Figure 4, Appendix B. Figure 5, Appendix B, illustrates soil sample locations collected during excavation. The proposed cleanup level was 1,000 ppm TPH-D. Due to the proximity of the onsite building, excavation was not performed within 5 feet of the buildings and depth was limited adjacent to the building, to prevent destabilizing the structure. Soil adjacent to the building did not meet remediation goals and reported contamination as high as 3,400 ppm. Soil analytical results for soil samples collected during excavation are included in Table 3, Appendix C.

Four monitoring wells were installed onsite on November 24 and 25, 2004, Figure 6, Appendix B. The analytical results from the soil samples collected during installation of monitoring wells are summarized on Table 2 in Appendix B. The soil samples collected from monitoring wells MW-12 and MW-13 at a depth of 15 ft contained TPH-D at concentrations of 4,100 ppm and 610 ppm, respectively. Quarterly monitoring has shown groundwater contaminant levels have been declining since the initial December 2004 sampling event (Table 4, Appendix B).

2.5 Potential Sensitive Receptors

A Sensitive Receptor Survey was completed for this site in May 2005. Five (5) parcels within the survey area had wells identified on the property; however, only two are currently used an both of these are used for irrigation purposes. Another Sensitive Receptor identified near the subject site was Hall Creek. Of the potential sensitive receptors identified, none is known to have been affected by impacted groundwater originating at the subject site and only Hall Creek poses significant potential for becoming impacted in the future.

2.6 Issues Remaining to be Addressed

Issues which remain to be addressed include the following:

- Define the downgradient boundary of the groundwater TPH-D plume.
- Subsequent Quarterly Monitoring Events to evaluate the effectiveness of previous soil remediation measures at the site and to confirm no offsite migration of TPH-D contaminated groundwater.

3.0 FIELD ACTIVITIES

The objectives of the scope of work was to delineate the downgradient extent of TPH-D contaminated groundwater by installing four borings and one monitoring well downgradient of the remaining source, and one monitoring well immediately adjacent to the previous excavation boundary. Prior to initiating or implementing any of proposed drilling activities at the site drilling permits were obtained from the HCDEH (see Appendix A).

The following tasks were performed by Winzler & Kelly, and/or Mitchell Drilling Environmental Corp. of Eureka, CA. (C57 License #672617), during the field activities associated with the implementation of the Workplan.

On April 25 and 26, 2006, Winzler and Kelly installed four borings south of the Dip Tank Building (Figure 7, Appendix B). B2-14 and B2-15 extended to the groundwater surface, which was encountered at 5.8 feet and 5.7 feet bgs, respectively. Hand auger equipment encountered refusal at 5.5 feet and 5.3 feet bgs in B2-16 and B2-17.

On May 15, 2006, Mitchell Drilling Environmental Corp. of Eureka, CA. (C57 License #672617) installed two borings, B2-16b and B2-17b, for the purpose of collecting grab groundwater samples from the boring. Groundwater was encountered at 5.9 feet bgs in B2-16b and 6.0 feet bgs in B2-17b.

After receiving the results of the soil and groundwater samples from the borings discussed above, Mitchell Drilling Environmental Corp. installed two monitoring wells, MW-15 and MW-16. With concurrence from HCDEH, MW-16 was installed adjacent to the boring with the highest concentration of contaminates to assist in further delineating the extent of TPH-D contaminated groundwater at the site.

Boring Logs and Field Notes collected during drilling activities are included in Appendix E. The locations of the new borings and wells described above are shown on Figure 7, Appendix B.

3.1 Boring Installation

Winzler and Kelly installed four borings using a three-inch diameter hand driven auger on April 25 and 26, 2006. The boring locations are shown on Figure 7, Appendix B. B2-14 and B2-15 extended to the groundwater surface, which was encountered at a depth of 5.8 feet and 5.7 feet bgs, respectively. The hand driven auger encountered refusal at 5.5 feet and 5.3 feet bgs in B2-16 and B2-17.

Soil samples were collected with a stainless steel, drive sample barrel lined with clean brass sleeves. Soil samples were collected at 5 feet bgs in all borings and at the groundwater interface for B2-14 and B2-15. Samples were capped with Teflon sheeting and plastic end caps, labeled, wrapped in a plastic storage bags and stored in a cooler, on ice. Sample numbers and depths were noted on the boring logs. The remaining sample was used for color and soil type classification using the Unified Soil Classification System and Munsell color charts. The soil lithology, depth to saturated soil, and depth to groundwater were logged for all borings and is included in Appendix E. Grab groundwater samples were collected from borings B2-14 and B2-15 using a disposable polyethylene bailer.

On May 15, 2006, Mitchell Drilling installed alternative borings B2-16b and B2-17b, with a truck-mounted hollow-stem auger, due to refusal encountered before reaching groundwater in the previous hand-boring attempt. Soil samples were collected using a split spoon sampler from 5 feet and 6.5 feet bgs in B2-16b and B2-17b. Grab groundwater samples were collected from B2-16b and B2-17b using a disposable polyethylene bailer.

Grab groundwater samples were transferred from the bailers to the appropriate size/type containers with the appropriate preservatives. Sample containers were labeled, wrapped in plastic bags and stored in a cooler, on ice, and transported to North Coast Laboratory for chemical analyses.

All soil and grab groundwater samples were collected in accordance with Winzler & Kelly's Standard Operating Procedures (SOPs) included in Appendix D.

Monitoring Well Installation 3.2

After reviewing the analytical results from the samples collected during the installation of the borings, monitoring wells MW-15 and MW-16 were installed on May 17, 2006. The monitoring wells were drilled using a truck-mounted hollow-stem auger drill rig and soil samples were collected at five foot intervals using a split spoon sampler in accordance with Winzler and Kelly's SOPs, included in Appendix D. The soil lithology, sample locations, depth to saturated soil, depth to groundwater, and well construction details were logged for wells MW-15 and MW-16, and are provided in Appendix E.

The monitoring wells were constructed of 2-inch diameter PVC, slotted well screen and casing installed through the 8" diameter drilling augers. A uniform filter pack was installed from the bottom of the boring to a depth of 1 foot above the top of the well screen. The monitoring wells were screened from 3 ft bgs to the total depth of 20 ft bgs. Monterey #2/12 washed silica sand was placed around factory slotted screens with 0.010-inch slots. A 1-foot thick seal of hydrated bentonite pellets were placed over the filter pack with concrete to the surface. The tops of the PVC casings are approximately 2 inches below surface grade. The monitoring wells are protected by a flush-mounted traffic box set in concrete with locking well cap. For MW-15, the top of the traffic box is set slightly above the finished grade with a gently sloping concrete rim to avoid ponding water in the wet season. The traffic box for MW-16 was placed above grade to provide the property owner with access to add additional fill behind the former Dip Tank Building. The location of the new monitoring wells were surveyed as described below.

Laboratory Analyses 3.3

Based on the results of the previous investigations at this site and information known to Winzler & Kelly, the soil samples collected from this site were analyzed for the following constituents:

- Total Petroleum Hydrocarbons as Gasoline (TPH-G) and Benzene, Toluene, Ethylbenzene, and Xylenes, including m,p-Xylene and o-Xylene (BTEX) by EPA Method 8015B GCFID.
- Total Petroleum Hydrocarbons as Diesel (TPH-D) and Total Petroleum Hydrocarbons as Motor Oil (TPH-MO) by EPA Method 3550 GCFID with silica gel cleanup.

Groundwater samples were analyzed for the following constituents:

- Total Petroleum Hydrocarbons as Gasoline (TPH-G) and Benzene, Toluene, Ethylbenzene, and Xylenes, including m,p-Xylene and o-Xylene (BTEX) by EPA Method 5030/8021B.
- Total Petroleum Hydrocarbons as Diesel (TPH-D) and Total Petroleum Hydrocarbons as Motor Oil (TPH-MO) by EPA Method 3510/3630/8015B with silica gel cleanup.

Soil and water samples collected for chemical analyses were submitted under chain-of-custody documentation to North Coast Laboratories of Arcata, CA, a State-certified laboratory. All the laboratory analytical reports, chain-of-custody forms and quality control reports for all the samples collected by Winzler & Kelly during this scope of work can be found included in Appendix G, "Laboratory Results, Chain of Custody Forms, and QA/QC Documents".

Site Survey Activities 3.4

Following completion of the field activities, MW-15 and MW-16 were surveyed by Ontiveros and Associates for:

- Horizontal coordinates (0.1 foot accuracy) and,
- Vertical (0.01 foot accuracy) and horizontal (0.1 foot accuracy) coordinates of the top of casing of the new wells M-15 and M-16.

Note: The site survey was tied to the previous Winzler & Kelly survey at this site. The survey results were submitted to the State of California's GeoTracker web site on June 29, 2006.

RESULTS 4.0

Soil Sample Analytical Results 4.1

Soil samples collected during the drilling of B2-14 through B2-17 were below laboratory detection limits for all analytes tested with the exception of TPH-MO in samples B2-14-5, B2-14-5.75, and B2-17-5b, reported at concentrations of 10 ppm, 13 ppm, and 54 ppm, respectively.

The soil samples collected from MW-15 at a depth of 10 feet and 20 feet bgs, reported concentrations of TPH-G at 810 ppm and 4.1 ppm. The soil sample collected from 10 feet bgs, sample MW-15-10, also reported concentrations of TPH-D and TPH-MO at 950 ppm and 130 ppm, respectively. Concentrations for other constituents from samples collected during the installation of MW-15 were below laboratory detection limits.

The soil samples collected during the installation of MW-16 reported concentrations below laboratory detection limits for all tested constituents.

A summary of all the above soil sample results can be found on Table 2 in Appendix C, and the locations of the above-noted borings can be found on Figure 7, Appendix B.

4.2 Grab Groundwater Analytical Results

Grab groundwater samples collected during the drilling of B2-14 through B2-17 reported concentrations below laboratory detection limits for all tested constituents with the exception of B2-16, which had Toluene reported at 0.56 ppb.

A summary of all the above grab groundwater sample results can be found on Table 1 in Appendix C, and the locations of the above-noted borings can be found on Figure 7, Appendix B.

Monitoring wells MW-15 ad MW-16 were developed, purged, and sampled along with the other onsite monitoring wells on June 8th and 9th. The sample data from these wells will be addressed in the quarterly monitoring report after the sample results are obtained from the laboratory.

4.3 Quality Assurance/Quality Control (QA/QC)

Field QA/QC was provided by adherence to the Winzler & Kelly's SOPs for Soil Boring and Monitoring Well Installation as contained in Appendix D.

A travel blank was submitted with the groundwater samples. All constituents were below laboratory detection limits in the travel blank. Laboratory QA/QC was provided by the use of lab Method Blanks to preclude false positive analysis of analytes and the use of Laboratory Control Spike samples (LCS) to evaluate the percentage recovery of target analytes during analysis.

In regard to the analyses of the soil samples collected from the installation of borings and monitoring wells, the laboratory provided the following notes:

All Samples submitted for a silica gel cleanup were initially analyzed for diesel/motor oil. The samples showing no detectable levels of the analytes were not subjected to the cleanup procedure.

- TPH as Diesel/Motor Oil w/ Silica Gel Cleanup:
 - "Sample MW-15-10 contains material similar to degraded or weathered diesel oil."
 - o "Sample MW-15-10 does not have the typical pattern of fresh motor oil; however, the result reported represents the amount of material in the motor oil range."
 - O "Due to contaminate present in the method blank and sample B2-17-5b, the reporting limit for this sample was raised."
 - o "The relative percent difference (RPD) for the laboratory control samples was above the acceptance limit for diesel. This indicates that the results could be variable. Since there were no detectable levels of analytes in the samples, the data were accepted."

• TPH-G:

- o "Sample MW-15-10 does not present a peak pattern consistent with that of gasoline. The reported result represents the amount of material in the gasoline range."
- o "Sample MW-15-20 does not present a peak pattern constant with that of gasoline. The peak elute towards the end of the gasoline range. In the laboratories' judgment, the material appears to be a product heavier than gasoline. Due to the differences in the purging efficiency of these heavier materials the results may be variable. The reported results represent the amount of material in the gasoline range."

BTEX:

"Sample MW-15-10 was diluted and some reporting limits were raised additionally due to matrix interference. This sample is also being reported as non-detected with a dilution for some analytes due to matrix interference."

In regard to the analyses of the grab groundwater samples collected from the installation of borings, the laboratory provided the following notes:

• TPH as Diesel/Motor Oil:

- o "The relative percent difference (RPD) for the laboratory control samples were above the acceptable limits for diesel. This indicates that the results could be variable. Since there were no detectable levels of the analytes in the sample, the data were accepted."
- o "The relative percent difference (RPD) for the laboratory control samples was above the acceptable limits for motor oil. This indicates that the results could be variable. Since there were no detectable levels of the analytes in the sample, the data were accepted."

BTEX:

"The reporting limit for MTBE was raised for sample B2-17 due to matrix interference."

4.4 Disposition of Wastewater and Drill Cuttings

Drummed drill cuttings are stored at the site pending HCDEH approval and disposal arrangements. It is recommended that drums containing soil cuttings from the borings and MW-16, be spread onsite in a manner as to prevent soil from being washed or tracked off the site.

Soil from MW-15 and the rinsate water will be disposed of at properly permitted facilities. Disposal of the development purge water from wells MW-15 and MW-16 will be determined upon receipt of laboratory data.

5.0 CONCLUSIONS

Four borings and two additional monitoring wells were installed in the vicinity of the former UST location to asset in the defining the boundary of the groundwater TPH-D plume.

Soil sample results from the installation of MW-15 confirms that soil contamination is still present near the boundary of the extent of soil excavation from previous remediation activities. Soil samples from borings B2-14, B2-15, B2-16, and B2-17 as well as monitoring well MW-16 indicate that soil contamination has not migrated to any extent to the southern side of the building.

Grab groundwater samples collected during the drilling of borings B2-14 through B2-17 indicate that groundwater contamination has not migrated offsite in the downgradient direction of the source area. This will be further verified upon the receipt of results from the groundwater samples collected on June 8th and 9th from MW-15 and MW-16 and the other monitoring wells on-site.

6.0 RECOMMENDATIONS

This Report of Findings is to be submitted to HCDEH for their review, comment and/or consideration for the following recommendation(s). In a continued effort to bring the investigation at this site toward closure, and after reviewing the information known to Winzler and Kelly and the conclusions presented in this Report of Findings, Winzler & Kelly recommends the following:

• The groundwater monitoring program should be continued at the site. The Program is to consist of quarterly groundwater analytical sampling for a full hydrologic cycle for all the installed wells. Quarterly monitoring reports should be submitted to the HCDEH, including groundwater gradient maps, laboratory analytical data, and laboratory quality control reports.

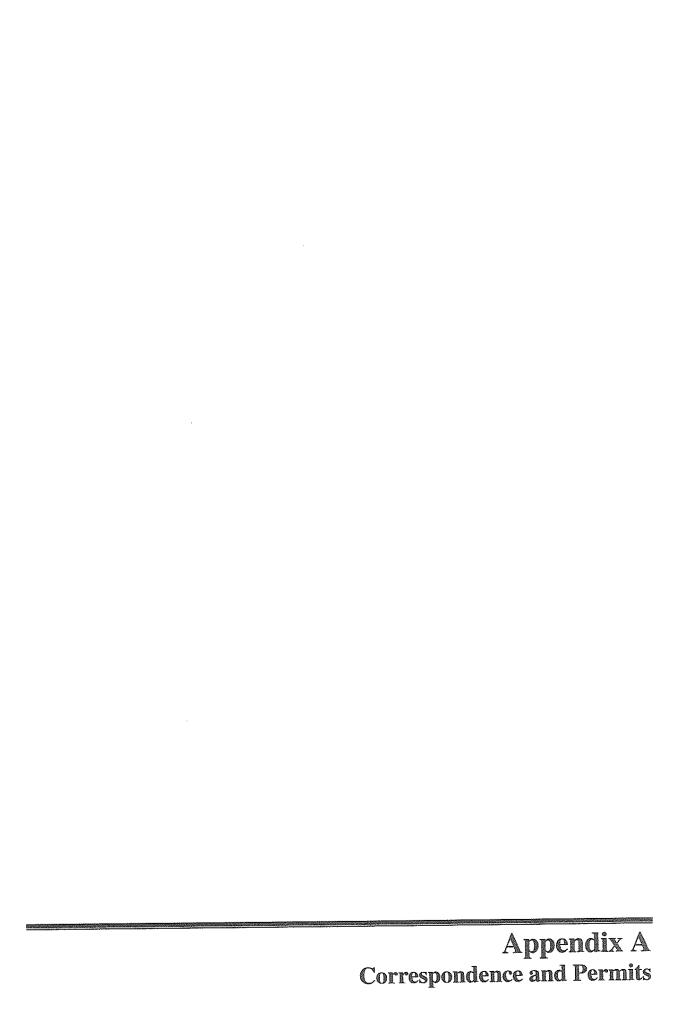
7.0 DISTRIBUTION

Copies of this report have been sent to the following:

Blue Lake Forest Products c/o Dan Aalfs P.O. Box 2159 McKinleyville, CA 95519

Gary Johnston 1325 G. Street Eureka, CA 95501 Mr. Mark Verhey Humboldt County Department of Health and Human Services Division of Environmental Health 100 H Street, Suite 100 Eureka, California 95501

Geotracker Website: http://geotracker.swrcb.ca.gov/





Humbolat County Department of Health and Human Services DIVISION OF ENVIRONMENTAL HEALTH

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November 7, 2005

Blue Lake Forest Products Charles D. Aalfs PO Box 2159 Arcata, CA 95518-1176

Subject:

Blue Lake Forest Products

1619 Glendale Drive, Arcata, California

LOP Case #12196

Dear Mr. Aalfs:

Thank you for submitting the October 7, 2005 Second Quarterly Monitoring Report for June 2005, and the October 14, 2005 Third Quarterly Monitoring Report for September 2005, prepared by Winzler & Kelly Consulting Engineers.

We have some comments and questions:

- We concur with continuing the existing monitoring schedule.
- We recommend installing monitoring wells within 20 feet downgradient of the identified areas of soil contamination. We recommend a screened interval of 5 to 15 feet below ground surface (bgs).
- The soil logs for monitoring wells MW-11 through MW-14 show screened intervals to bottom of hole at 25 feet bgs. The notes on the soil logs say the screened intervals are 5 feet to 20 feet bgs. What are the screened intervals of these monitoring wells?
- Can you provide us with an update on the status of Well AW-1?

Feel free to contact me at (707) 268-2238, or Mark Verhey at (707) 268-2208 if you have any questions.

Sincerely,

Justin M. Shobe

Environmental Health Technician I

Humboldt County Local Oversight Program

JMS: ar

cc:

Patrick Kaspari, Winzler & Kelly /

Gary Johnston, 1325 G Street, Eureka, CA 95501

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12196.026/206L



Humboldt County Department of Health and Human Services DIVISION OF ENVIRONMENTAL HEALTH

100 H Street - Suite 100 - Eureka, CA 95501

Voice: 707-445-6215 - Fax: 707-441-5699 - Toll Free: 800-963-9241 envhealth@co.humboldt.ca.us

March 21, 2006

Blue Lake Forest Products Charles D. Aalfs PO Box 2159 Arcata, CA 95518-1176



Subject:

Blue Lake Forest Products

1619 Glendale Drive, Arcata, California

LOP Case #12196

Dear Mr. Aalfs:

Thank you for submitting Workplan and Workplan Addendum, prepared by Winzler & Kelly Consulting Engineers.

- We concur with the proposed borings.
- We recommend future monitoring wells be installed in the areas of highest concentration, as close to the remaining source as possible, with screen intervals of 5 to 15 feet below ground surface (bgs).
- We concur with the proposed location of MW-15. We recommend waiting until the results of borings are received since additional monitoring wells may be necessary at this site to adequately describe the groundwater plume resulting from the remaining source. We recommend Winzler and Kelly comment on the information regarding the extent and concentration of the remaining source. We recommend installing borings inside the existing building to complete delineation of the remaining source.
- Please respond to our previous question regarding screened intervals of existing monitoring wells.
- Please describe the usefulness and accessibility of all existing monitoring wells.

Feel free to contact me at (707) 268-2208 if you have any questions.

Sincerely

Mark Verhey, Geologist

Humboldt County Local Oversight Program

MAV: ar

cc:

Patrick Kaspari, Winzler & Kelly 🗸

Gary Johnston, 1325 G Street, Eureka, CA 95501

12196.027/206L

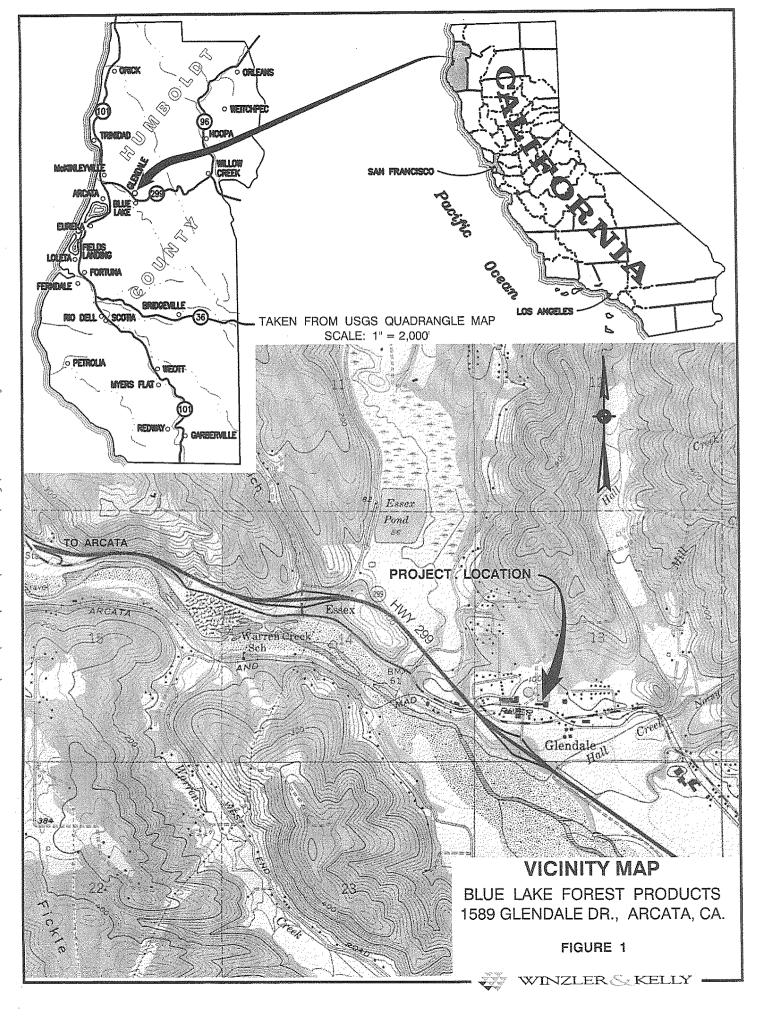
HUMBOLDT COUNTY DIVISION OF ENVIRONMENTAL HEALTH - HAZARDOUS MARREL CUNET IVED WELL and BORING PERMIT APPLICATION

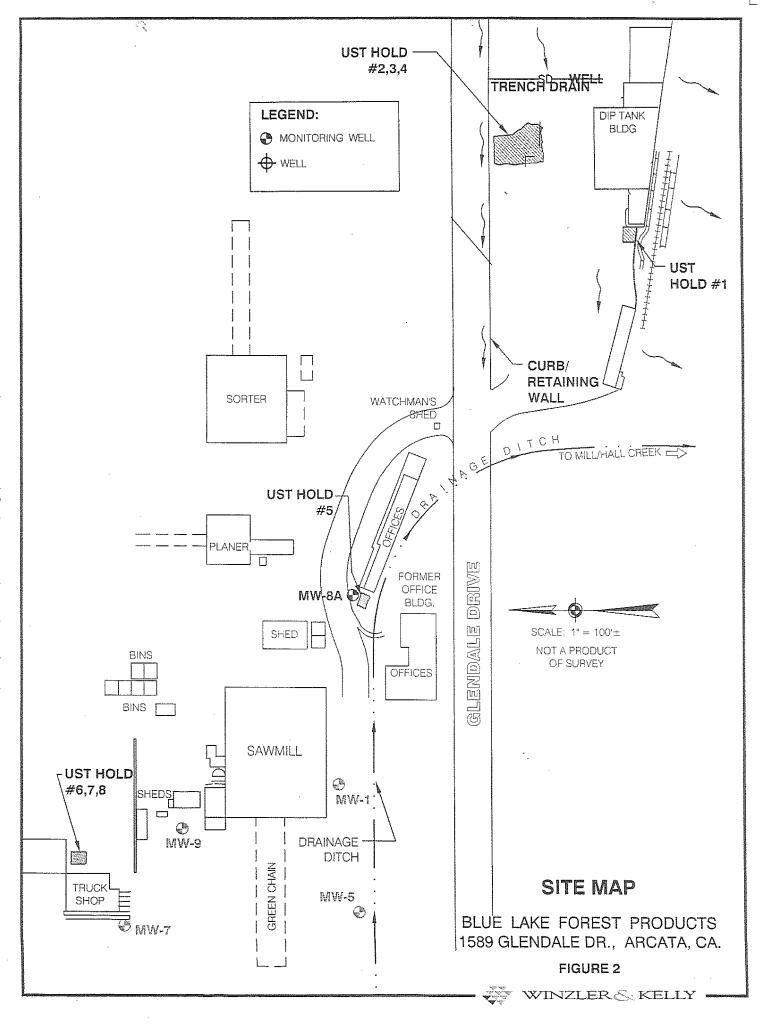
Facility ID# 1296 Permit# 2	06-J MAY 11 2006
Facility Name: Blue Lake Forest Products	HUMBOLDT CO. DIVISION
	OF ENVIRONMENTAL HEALTH
	A managed of the state of the s
Site Owner: Gary Johnston Address: 1325 G Street Fureka, CA 9550	Telephone: <u>442-6765</u> 1 AP#: <u>516-151-004</u> & 013
RP Name: Dan Aufs	Telephone: 825-7809
Address: P.O. BOX 2159 McKintywile, CA 95519	
Consultant: Wirizler and Kelly Consulting Engineers	Telephone: 443-8326
Address: 633 Third Street Cureta, (A 9550)	Reg.#/Type: <u>C055722</u>
Driller: Mitchell Drilling Environmental Corp.	Telephone: 444-9040
Address: 7900 Myrtle Ave Fureka, CA 95503	C-57 Lic.#: 672617
# On-site	# Off-site
Wells 2 Borings Wells	Borings
Activity:	pe:
☐ Extraction Well ☐ Piezometer ☐ Vapor Point ☐ Vadose Well ☐ Cathodic Protection ☐ Direct Push Boring ☐ Investigation Type: ☐ Site Assessment ☐ Disposal Practice ☐ UST ☐ Surface Contamination ☐ Surface Impoundment ☐ AST	Geologic Boring Soil Gas Survey Temporary Well Point Other*
*Specify:	
Investigation Phase: Initial Subsequent Remediation Closure Suspected Contaminants: TPH-D/MO	
Disposal/Containment for Soil Cuttings: 55 gallon DOT drim-Sa	mpled for characterization
Disposal/Containment for Rinsate:	1. Fox disposit
Disposal/Containment for Development Water:	"
Permits will not be processed with out the following information:	
Scaled Construction Detail	
☑ Detailed Site Plan ☐ Copy of Workplan (if not on fi	le at HCDEH)
E Lead Agency Approval Letter	
Off Site Well Requirements:	•
Legal Right of Entry Proposed Work Date: 5/17/00	2
Off Site Address/Location	
Encroachment Permit	
Coastal Zone Permit	

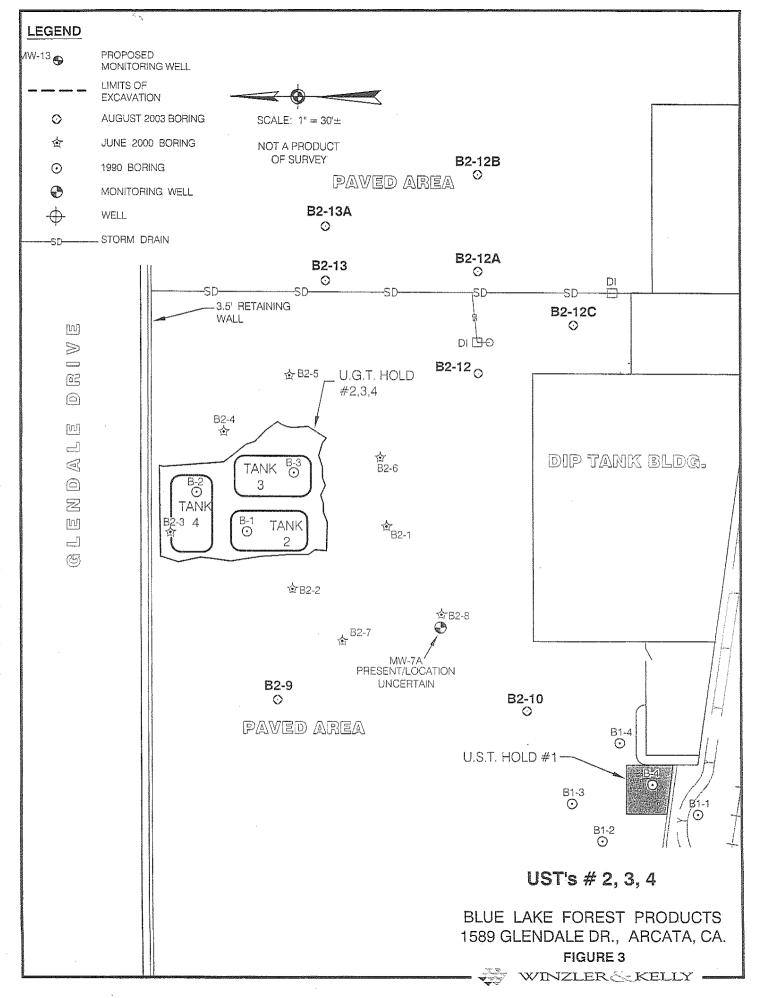
HUMBOLDT COUNTY DIVISION of ENVIRONMENTAL HEALTH - HAZARDOUS MATERIALS UNIT WELL and BORING PERMIT APPLICATION

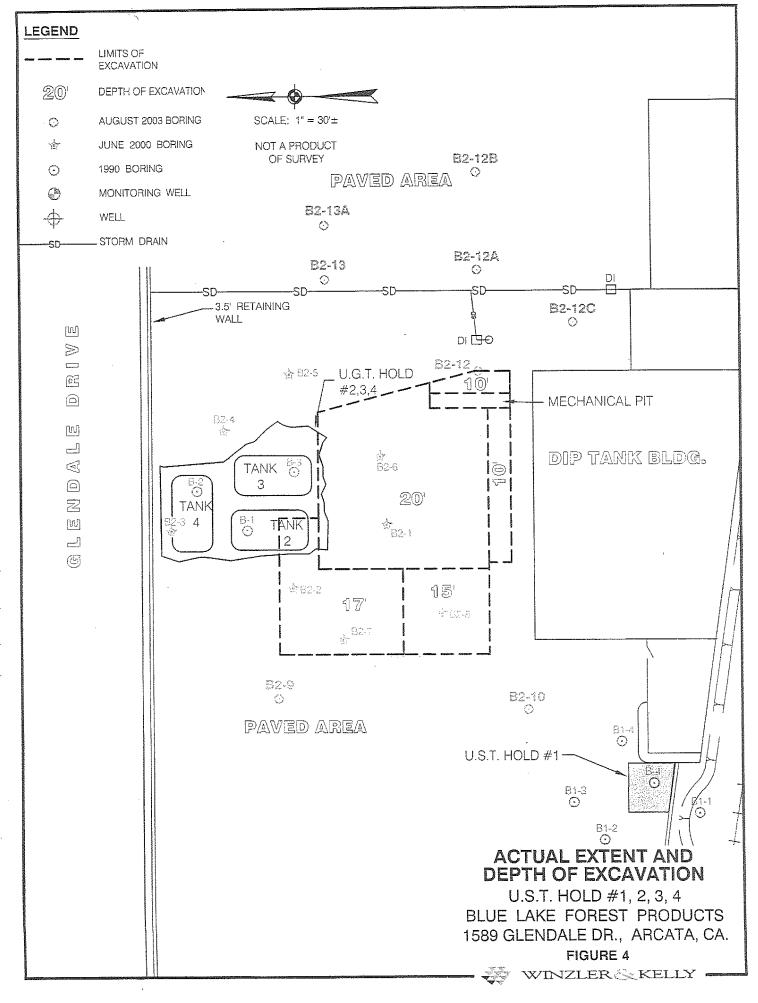
Facility ID # 12	-1916 Permit #	# <u>206-1</u>
Facility Name: Blue Lake Fores	+ Products	
Site Address: 1619 Glendalt Dr	in . / #1	95521
Site Owner: Gary Johnston Address: 1325 G Street	Eureka, CA 95	Telephone: <u>442-671</u>
	TOVE POCT ON	
RP Name: Dan Halts		Telephone: 825-780
Address: PO. BOX 2159 McKinly	()	
Consultant: Winzler & Kelly (
Address: 633 Third St. En	reka, LA 95501	Reg.#/Type: <u>C05577</u>
Driller: Hand diriller No Co	ntractor	Telephone:
Address:		C-57 Lic.#:
# On-site		# Off-site
Wells Borings	H Wells	Borings
Activity:	anair/Modify Fla	ectrode Type:
Well Type:		tion Geologic Boring Soil Gas Survey
		Boring Temporary Well Point
 -	☐ Disposal Practice ☐ Surface Impoundment ☐	UST Other* AST
*Specify:	Ĵ Remediation □ Closure	
Suspected Contaminants: TPH-D/MO		·
Suspected Contaminants.		
Disposal/Containment for Soil Cuttings:	55 gallon DOT dn	um-sampled for character
Disposal/Containment for Rinsate:	5	
Disposal/Containment for Development Wa	iter: N/A	
Permits will not be processed with a	ant the following infor	mation.
		-
Scaled Construction Detail	Appropriate Fees	
Detailed Site Plan	Copy of Workplan (i	f not on file at HCDEH)
✓ Lead Agency Approval Letter ☐ Off Site Well Requirements:		11 75 7006
Legal Right of Entry	Proposed Work Date:	4.25.2006
Off Site Address/Location	- 	•
Encroachment Permit		,

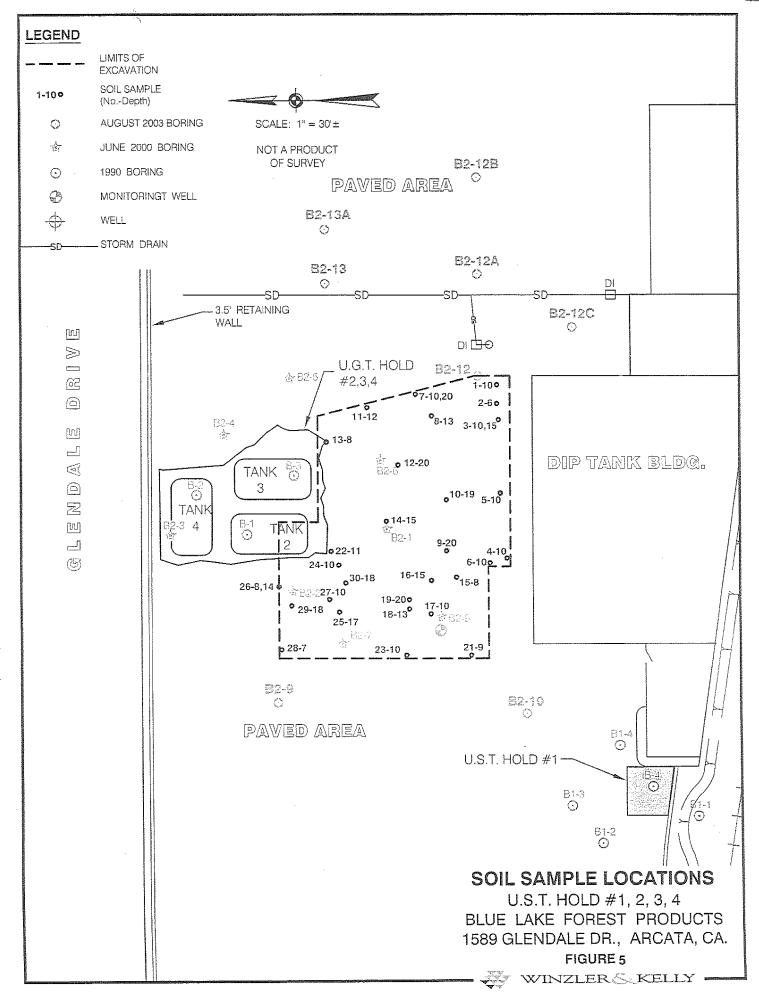
Coastal Zone Permit











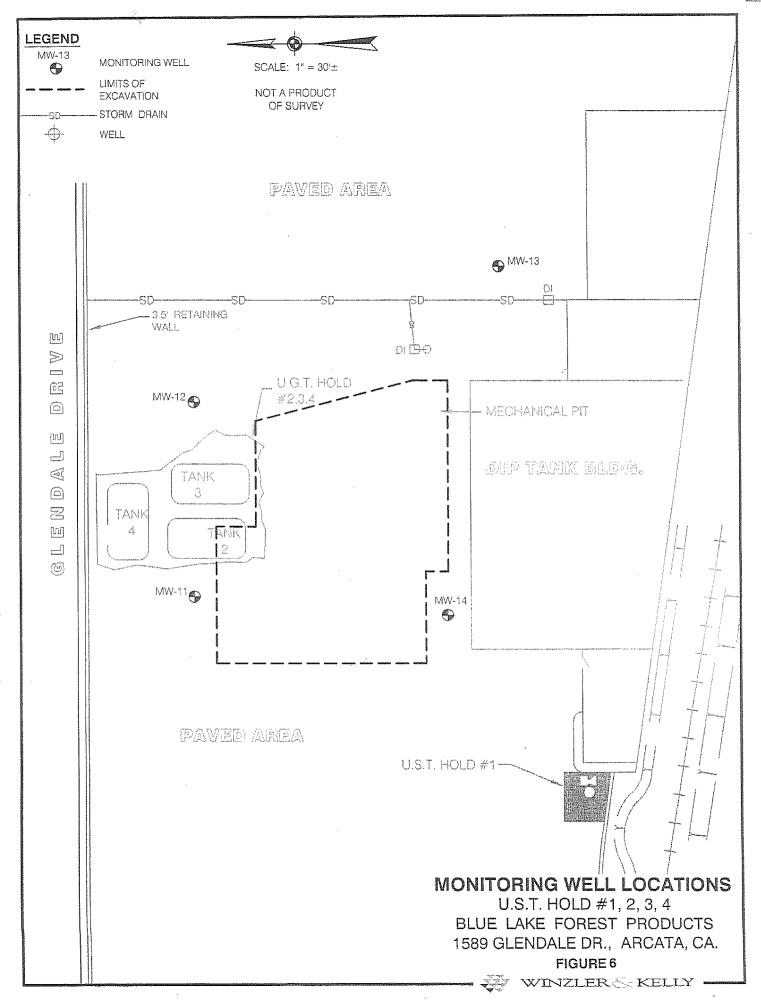


TABLE 1

HISTORIC GRAB GROUNDWATER ANALYTICAL RESULTS - UST Hold #1, 2, 3, 4 BLUE LAKE FOREST PRODUCTS JUNE 2000 AUGUST 2003

			***************************************					******		TAME					
		TPH-Diesel	TPH-Motor Oil		TBA				Į	Tertiary				1	
		With Silica Gel		TPH-Gas	Tertiary	MTBE	DIPE	ETBE	Benzene	Amyl	Toluene	Ethyl-	m,p	"o" Xylene	Lead (ppb)
Boring	Date	Clean-up/	Clean-up/	(ppb)	Butyl	Methyl tert	Diisopropy	Ethyl-t-	(ppb)	Methyl	(ppb)	Benzene	Xylene (ppb)	(ppb)	rest (bbo)
_		pre-cleaned	(ppb)	(bpo)	Aicohol	butyl ether	l-ether	butyl ether	., ,	Ether		(ppb)	(bhn)	1	
		(ppb)	(PF-1)		(ppb)	(ppb)	(ppb)	(ppb)	***************************************	(ppb)			***************************************		
***************************************		<u> </u>					NK HOLD								< 5.0 ⁵
B1-1	Jun-00	< 50	NA NA	< 50	< 10	< 0.50	< 1.0	< 1,0	< 0.50	< 1.0	< 0.50	<0.50	< 0.50	< 0.50	
B1-1 (Dupl)	Jun-00	< 50	NA NA	< 50	< 10	< 0.50	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50	<0.50	< 0.50	< 0.50 < 0.50	NA 17
B1-2	Jun-00	< 50	NA	< 50	NA.	< 3.0	NA	NA	< 0.50 < 0.50	NA NA	< 0.50 < 0.50	< 0.50 < 0.50	< 0.50 < 0.50	< 0.50	38
B1-3	Jun-00	< 50	NA NA	< 50	NA	< 3.0	NA NA	NA NA	< 0.50	NA NA	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0 °
B1-4	Jun-00	< 50	NA NA	< 50	NA NA	< 3.0 TAN	K HOLDS		< 0.00	NA.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	10.00	-0.00		
		J			F	IAN	KIOLDS	72,0,4			1				
		48,000 /									-007	< 1.5 ⁷	< 1.5 ⁷	< 1.5 ⁷	NA
B2-1	Jun-00	71,000 ^{1,3}	NA NA	880 ⁶	NA_	< 10	NA	NA	< 2.0	NA	< 3.0 7	< 1.5	× 1.5	1.0	147
		42,000 /									1 .	_	,	,	
B2-1 (Dupl)	Jun-00	72,000 ³	NA	780 ⁶	NA	< 10	NA	NA	< 2.0	NA	< 4.0 ⁷	< 1.5	< 1.5 7	< 2.0 7	NA
D2-1 (Dupi)	00,100	9,400 /													
50.0	h 00	17,000 ^{6,9}	NA	340 ⁶	NA.	< 3.0	NA	NA	< 0.50	NA	< 1.4 7	< 3.0 ⁷	< 3.0 ⁷	< 1.4 7	NA
B2-2	Jun-00	< 50	NA NA	< 50	NA NA	3.2	NA	NA	< 0.50	NA	< 0.50	< 0.50	< 0.50	< 0.50	NA
B2-3	Jun-00		11/2	~ 50	130	1 3.2	****	3 47 1	0.00						
		1,900 /		6					40.50	NA NA	< 0.50	< 0.50	< 0.50	< 0.50	NA
B2-4	Jun-00	2,600 ⁹	NA	160 ⁶	NA	< 3.0	NA	NA	< 0.50	INA	< 0.50	V 0,50	~ 0.50	< 0.50	1475
		11,000 /											ļ		
B2-5	Jun-00	18,000 ³	NA.	360 ⁶	NA	< 3.0	NA	NA	< 0.50	NA	< 0.50	< 0.50	< 0.50	< 0.50	NA NA
<u> </u>	00,700	8,200 /													
20.03	lum 00	12,000 ^{6,9}	NA.	310 ⁶	NA	< 3.0	NA	NA	< 0.50	NA	< 0.50	< 0.50	< 0.50	<1.0 7	NA
B2-6A	Jun-00		1973	310	130	1 3.0	1471	1		1		İ-			
1		13,000 /		6	l			315	< 0.50	NA.	< 0.50	< 0.50	< 0.50	<1.2 ⁷	NA
B2-6B (Dupl)	Jun-00	19,000 ^{6,9}	NA	360 ⁶	NA_	< 3.0	NA	NA_	+	 					NA
B2-7	Jun-00	< 50 / 57 ¹	NA	< 50	NA	< 3.0	NA	NA	< 0.50	NA.	< 0.50	< 0.50	< 0.50	< 0.50	
B2-8A **	Jun-00	< 50 ⁶	NA	320 ⁶	NA	< 3.0	NA	NA	< 0.50	NA_	< 4.0	< 3.0 ⁷	< 3.0 7	< 3.0 7	NA
B2-9	Aug-03	< 50	NA	< 50	NA	< 3.0	NA	NA	< 0.50	NA	< 0.50	< 0.50	< 0.50	< 0.50	680****
B2-10	Aug-03	< 50	NA	< 50	NA	< 3.0	NA	NA	< 0.50	NA	< 0.50	< 0.50	< 0.50	< 0.50	1500****
B2-12	Aug-03	30,000	NA	200	NA	< 3.0	NA	NA	< 0.50	NA	< 0.50	< 0.10	< 0.50	< 1.2	240****
B2-12A	Aug-03	150,000	NA	300	NA	< 3.0	NA	NA	< 0.50	NA	< 0.50	< 1.2	< 0.50	< 1.4	280****
B2-12B	Aug-03	2,100	NA	220	NA	< 3.0	NA	NA	1.3	NA	1,3	< 0.50	0.67	0.66	< 10 / 170****
B2-12B B2-12C	Aug-03	6,800	NA NA	120	NA.	< 3.0	NA	NA	< 0.50	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 10 / 850****
		31,000	NA:	220	NA.	< 3.0	NA.	NA	< 0.50	NA	< 0,50	< 0.50	< 0.50	< 0.50	1300****
B2-13	Aug-03	< 50	NA NA	< 50	NA.	< 3.0	NA	NA.	< 0.50	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 10 / 420****
B2-13A	Aug-03			.1	NA NA	< 3.0	NA.	NA.	< 0.50	NA	< 0.50	< 0.50	< 0.50	< 0.50	NA.
B2-14	Apr-06	< 50	< 170	< 50	NA NA	< 3.0	NA.	NA NA	< 0.50	NA	< 0.50	< 0.50	< 0.50	< 0.50	NA
B2-15	Apr-06	< 50	< 170	< 50 < 50	NA NA	< 3.0	NA NA	NA NA	< 0.50	NA.	0.56	< 0.50	< 0.50	< 0.50	NA
B2-16	May-06	< 50	< 170	·•						NA.	< 0.50		< 0.50	< 0.50	NA
B2-17	May-06	< 50	< 170	< 50	NA	< 6.0 ⁷	NA	NA.	< 0.50	J INA	∿ U.DU	1 ~ 0.00	L ~ U.JU	- v.sv	1

B2-17 May-06 SU 170 SSO NA 10-1 NA 10-

"" ICAP Metals with acid digestion (Lead) (EPA 200.7)
TPH-Diesel analysis by EPA 3550/GCFID using a silica get clean-up, however, due to low surrogate recovery in many such analysis, a "pre-cleaned" standard TPH-D analysis was also performed, denoted in results performed, denoted in results as [w/silica get / "pre-cleaned"]. All diesel results represent material in the diesel range of molecular weights only.

TPH-Gas and VOC analysis by 8260B including oxygenates TBA, MTBE, DIPE, ETBE and TAME, where indicated

or TPH-Gas and BTEX analysis, including MTBE, by EPA 8021B/5035, not including oxygenates.

Total Lead analysis by EPA 200.0 for June 2000 samples

Total Lead analysis by EPA 200.7 or 200.9 for August 2003 samples.

Reporting limits for Lead vary depending on the quantity of Lead in the sample. Varying dilutions are used due to the calibration curve of the instrument.

- 1 Sample contains material in the diesel range of molecular weights, but the material does not exhibit the peak pattern typical of diesel oil.

 2 Due to low LCSLCSD values for the sitica gel diesel analysis, sample will include "pre-cleaned" value in addition.

 3 The surrogates could not be quantified due to a sample dilution.

 5 The reporting limit was lowered to 5 ug/L by client request, data accepted as lowest calib. standard is 5 ug/L.

 6 Samples do not have the typical pattern of fresh gasoline, however, the results reported represent the amount of material in the gasoline range.

 7 Some reporting limits were raised due to matrix interference.
- 9 The surrogates for "pre-cleaned" samples could not be quantified due to matrix.

TABLE 2 HISTORIC SOIL ANALYTICAL RESULTS - UST Hold #1, 2, 3, 4 BLUE LAKE FOREST PRODUCTS

Ethyl- m,p Xylene "o" Xylene benzene (ppm) (ppm)	< 0.01^	<0.01 <0.01^A NA	<0.01 <0.01^ NA	< 0.01 < 0.01^n NA	< 0.01^	< 0.01^			<0.01 <0.01 ^A NA		<0.01^	<0.01^	1		< 0.01^	< 0.01 < 0.01^ NA		_				< 0.01 <0.01^ NA	< 0.01 < 0.01^ NA	< 0.0050	< 0,0050	< 0.0050	\dashv	< 0.0050	-	< 0.0050		00000	4.U	< 0.10 %		< 0.50 ⁸	< 0.50 ⁸	< 0.50 ⁸ < 0.050 ⁸ < 0.010 ⁷	< 0.50 ⁸ < 0.050 ⁸ < 0.010 ⁷ < 0.70 ⁸	< 0.50 ⁸ < 0.050 ⁸ < 0.010 ⁷ < 0.70 ⁸ < 0.70 ⁸ < 0.0050	<0.50 ⁸ <0.050 ⁸ <0.010 ⁷ <0.010 ⁸ <0.0050 <0.0050	 < 0.50 ⁸ < 0.050 ⁸ < 0.010 ⁷ < 0.70 ⁸ < 0.0050 < 0.0050 < 0.0050 	 0.50 8 0.050 8 0.010 7 0.010 6 0.0050 0.0050 0.0050 0.0050 	 6,50 ⁸ 0,050 ⁸ 0,010 ⁷ 0,0050 0,0050 0,0050 0,0050 0,0050
Toluene Ber (ppm) (p	0.36	> 0.051 <	0.125 <	0.22 <	> 0.20		0.135 <		<0.01		0.056		0.023 <			< 0.01		> 0.052 <	> 0.021 <					> 050000 >		> 0500.0 >		< 0.0050 < (\dashv	+	> 0,0050 >	╁	+	-		_	< 0.050 ° <							
Benzene (ppm)	<0.01	< 0.01	< 0.01	< 0.01	40.01	< 0.01	< 0.01	< 0.01	<0.01		< 0.01	< 0.01	< 0.01	<0.01	< 0.01	< 0.01		<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0050	< 0.0050	< 0,0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.50	< 0.025 *	B C B C \	000	< 0.050	< 0.050 ° < 0.0050	< 0.050 8 < 0.0050 < 0.0050	 0.050° 0.0050 0.0050 	 C.050 C.0050 C.0050 C.0050 C.0050 C.0050 	 < 0.050 ° < 0.050 ° < 0.050 < 0.0050 < 0.0050 < 0.0050 	 0.050 ° 0.050 ° 0.050 ° 0.050 ° 0.050 ° 0.0050 ° 0.0050 ° 0.0050 ° 	 0.050 0.050 0.050 0.0050 0.0050 0.0050 0.0050
MTBE (ppm)	AN	ΑN	AN	AN	AN	Ą	AN	MA	ΑN	RECOVERY	AN	AN	ΑN	ΑN	NA	AN.	COVERY	Α̈́	AN	AN	AN A	AN	ĄX	< 0.050	< 0,050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 5.0 °	< 0.25 ^a	° 0.2>		< 0.50	< 0.50 °	< 0.50 ° < 0.050 < 2.5 8	< 0.50 b < 0.050 < 2.5 b < 0.050	< 0.50 ^b < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050	< 0.50 ^b < 0.050 < 0.050 < 2.5 ^b < 0.050 < 0.050 < 0.050 < 0.050	< 0.50 b < 0.050 < 2.5 b < 0.050 < 0.050 < 0.050	 0.50 b 0.050 2.5 b 0.050 0.050 0.050 0.050 0.050
TPH-G (ppm)	AN	AN	NA	NA	NA	ΑΝ	NA	NA	ΝA	10	NA	AN	AN			ΑN		ĄN	ΑN	AN	NA	NA	AN	<1.0	× 1,0	<1.0	< 1.0	< 1.0	< 1.0	× 1.0	< 1.0	< 1.0	910 °	52 ⁶	360 6	9 80	ħ	4,3	4,3°	4.3 ° 230 ° < 1.0	4.3° 230° < 1.0	4.3 ° 4.3 ° 4.0 °	4.3 b 230 b < 1.0 < 1.0 < 2.8 b	4.3 ° 230 ° 6
TPH-MO (ppm)	NA	ΑN	ΑN	NA	NA	AN	ΑN	NA	AN		NA	ΝΑ	ΑŅ	NA	Ą	NA		AN	AN	AN	AN	ĀZ	AN	NA	AN	NA	ΑN	NA	NA	ΑN	NA	NA	NA	AA	ΑZ	AN		Ϋ́	AN AN	AN AN AN	NA NA NA	NA NA NA	AN NA S	A N N N N N N N N N N N N N N N N N N N
TPH-D: Silica Gel Clean-up / Pre-cleaned. (ppm)	930	210	<10	13	110	17	93	<10	14		140	370	35	48	33	<10		240	210	270	×10	210	210	404/	× 1.0	18/142	1.3 / 1.6	< 10 s	1.3/1.1 2	< 1.0	< 1.0	< 1.0	3,300 / 5,400 1,3	1,800/3,10013	1.900 / 3.700 1.3	1,100 / 2,000 1,3	2225	2.6 / 4.7	2.6/4.7	2,6/4,7) 770/1,600 1,3	2.6/4,7 770/1,500 ^{1,3} <1.0	2.6./4.7 770/1,600 1.3 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	2.6/4.7 770/1,600 1.3 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.	2.6/4.7 7.70/11,600 1.3 7.70/11,600 1.3 7.70/11,600 1.3 7.10 7
Sample Interval (ft)	£1 5 E1	44' - 44 E'	- 11.0 - 44.18 E	241 24 5		141 44 51	5,44 - 11	10-10,5	21 - 21.0 21 - 21.0	2.0	16,18 5	21,-21 5	25, 25,	6, 65	441 - 11 5	12. 45.45		: : :	14- 44	2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	10-10.0	5.12+12	20 - 20.3	2011	5 - 5.5 7 5! - 8 0!	7.0.7 7.7.7.	10'-10 5'	R: A F!	9.9.95	5.55	9 9.5	10.5' - 11'	3.5' ~ 4'	9.5' - 10'	10 51 123	18.5' - 10'	2 . 2 .	100 21 001	22.5' - 23'	22.5° - 23° 5° - 5.5° 40° 40.6	22.5' - 23' 5' - 5.5' 10' - 10.5	22.5' - 23' 5' - 5.5' 10' - 10.5 14.5' - 15'	22.5' - 23' 5' - 5.5' 10' - 10.5 14.5' - 15' 19.5' - 20'	22.5° 23° 55.5° 10° - 10.5° 10° - 10.5° 15° 16° 11° - 10° 11° - 10° 11° - 10° 11° 11° 11° 11° 11° 11° 11° 11° 11°
Date	00 4	Apr-90			00 4	Apr-30			00 200	Apr-so				Apr. DO	OS INC			00 :- 4	Apr-90					***************************************	30-unr	WWW.	DD-14D2	00 414	20-1100	00-019			00-uril.	The state of the s						ეი-იი	Jun-00	00-nut	00-mV	Jun-00
Boring	H T T	B-1A	9-18	0-1C	2000	200	97-9	15-50 10-50	12-0	H-3A	8-3B	10-50 10-50	0-3D	3.44	0-4W	20-00	D-4C	# r / r .	MW-7A	MW-/B	MW-7C	MW-/U	MW-7E	1 /- MIN	B1-1	**************************************	61-2		2-12	V-+ C	110		B9.4							B2-2	B2-2	82-2	B2-2	B2-2 B2-3

TABLE 2
HISTORIC SOIL ANALYTICAL RESULTS - UST Hold #1, 2, 3, 4
BLUE LAKE FOREST PRODUCTS

"o" Xylene (ppm)	< 0.0050	< 0.0050	< 0.20	< 0.0050	< 0.0050	< 0.0050	< 0,0050	< 0.010 7	< 0.10	< 0.050	< 3.0 °	<2.0 °	< 0.0050	< 0.0050	> 0.90	< 0.0050	< 0.0050	0,000.0 >	0.20	< 5.0 =	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	00000	< 0.0050	00000	× 0.0050	00000	000000	< 0.0050	< 0.0050	< 0.10	00000 >	< 0.0050	< 0.0050	< 0.80	< 0.015	
m,p Xylene (ppm)	< 0.0050	< 0.0050	< 0.20 ⁸	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.20	< 0.020	< 1.6 °	<1.2 8	< 0.0050	< 0.0050	< 0.40 °	< 0.0050	< 0.0050	< 0.0050	0.10	< 3.0 ⁸	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0500.0 >	< 0.0050	< 0.0050	0500.0 >	00000 >	< 0.0050	< 0.0050	< 0.020	< 0.0050	< 0.0050	< 0.0050	< 0.10	< 0.0050	
Ethyl- benzene (ppm)	< 0.0050	< 0.0050	< 0.20 ^a	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.050	< 0.020,	< 0.020 /	< 1.6°	<1.28	< 0.0050	< 0.0050	< 0.40	< 0.0050	< 0.0050	< 0.0050	0.10 '	< 3,0 ⁸	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	00000 >	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.10	< 0.0050	< 0.0050	< 0.0050	< 0.50	< 0.0050	
Toluene (ppm)	< 0.0050	< 0.0050	< 0.050°	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.050	< 0.050	< 0.0050	< 0.50	< 0.50 ⁸	< 0.0050	< 0.0050	< 0.12 °	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.50	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.012	< 0.0050	< 0.0050	< 0.0050	< 0.10	< 0.0050	
Benzene (ppm)	< 0.0050	< 0.0050	< 0.050	< 0.0050	< 0.0050	< 0,0050	< 0.0050	< 0.050	< 0.050	< 0.0050	< 0.50 ^d	< 0.50 ⁸	< 0.0050	< 0.0050	< 0.12 °	< 0.0050	< 0.0050	< 0,0050	< 0.0050	< 0.50 8	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0,0050	< 0.0050	< 0,0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0,0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.10	< 0.0050	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
MTBE (ppm)	< 0.050	< 0.050	< 0.50 8	< 0.050	< 0.050	< 0.050	< 0,050	< 0.050	< 0.050	< 0.050	< 5.0 %	< 5.0 ^a	< 0.050	< 0.050	< 1.2	< 0.050	< 0.050	< 0.050	< 0.050	< 5.0 8	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 1.0	< 0.050	
TPH-G (ppm)	0.10	× 1 0	72 B	× 1.0	< 1.0	× 10	012	376	14 6	11.	510°	490 6	< 1.0	< 1.0	180°	3.4 6	× 1.0	< 1,0	16.6	520 ⁶	< 1.0	< 1.0	< 1.0	<1.0	<1.0	41.0	<1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	21	0,1>	<1.0	<1.0	120	3.0	
TABLE 2 (Cont.) Ip / TPH-MO T (ppm)	ΔM	AM	AM	AN	AM	ΔN	NA	NA	NA	AN	NA	NA	NA	NA	ΑN	AN	ΝA	NA	ΑN	AN	AN	AM	AA	ΑΝ	NA	NA	NA	NA	ΑN	AA	NA	ΑN	NA	NA	NA	NA	ΑŅ	ΝΑ	NA	NA	Cont
TAE TPH-D: Silica Gel Clean-up / Pre-cleaned. (ppm)	0 / /	0.77	490 / 270 1.3	27/38	1000	0.4 / 0.1	0.7	201791	44 (50 1.9	42	3 400 / 19	2600 9	< 10.5	< 1.0	5026	12	< 1.0 ⁶	< 1,0	A A	400 9	0 + >	0 + 2	< 1.0	<1.0	<1.0	<1.0	<1.0	0,1 >	0,1>	<1,0	<1.0	<1,0	×1.0	<1.0	150	×1.0	0.12	A1.0	8.5	ann	
Sample Interval (ft)	10 1 10 1	0,0 - 0,4	8.0 - 10	14.0 - 13	01.00	0.0 2 0.4	44.61.421	7 - 0 - 10	10 - 10.0	10.0 - 10	1000	46-165	15. 45.	19.5' - 20'	15, 50,	40.405	491 13 21	19.5 - 201	70 T T V	100 - 10 H	10 E - 11'	15.7.15.8	19.5' - 20'	20 L	S (DI IP)	10	15	20	5	10	15	50		10	2	20	4	10	45	30	77
Date	The second secon	00-UN				JUA-00		,		00 411	20-100		- The state of the		00 00	חח-נוחר			00	กก-แกก				A. 0.2	CO-BOU				Δυσ-03	an fact			A10-03	CO BOU			50 c v	Wug-vo			
Boring	The state of the s	B2-4				B2-5				0 00	D.X-0				100	7-79				62-8				0 00	8-70				90.40	01-70			00.40	7 -70			A C & C C	BZ-12A			

TABLE 2 HISTORIC SOIL ANALYTICAL RESULTS - UST Hold #1, 2, 3, 4 BLUE LAKE FOREST PRODUCTS

			TA	TABLE 2 (Cont.)	nt.)					elinases en	1971 this color of the color of
WHO THE THE TRANSPORT OF THE TRANSPORT O			TPH-D: Silica Gel Clean-up /	TPH-MO	TPH-G	MTBE	Benzene	Toluene	Ethyt-	m,p Xylene	"o" Xylene
Boring		Sample Interval (ft)	Pre-cleaned. (ppm)	(mdd)	(mdd)	(mdd)	(mdd)	(mdd)	(ppm)	(mdd)	(mdd)
60, 40B	A10-03	10	0.15	NA	<1.0	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
071.70	22.000	15	5.0	NA	0,1>	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		20	600	ΑΝ	23	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.010	× 0.040
JC1 12	Augung	5	×1.0	NA	<1.0	< 0.050	< 0.0050	< 0,0050	< 0.0050	< 0.0050	000000
77, 77	OO BRO	10	0,1>	AA	<1,0	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		(5)	170	ΑN	13	< 0.050	< 0.0050	< 0.0050	× 0.020	< 0.010	× 0.030
	***************************************	20	180	NA	9.6	< 0.050	< 0.0050	< 0.0050	< 0.010	0000.0 >	0.020
B2.13	A110-03	5	0,10	ΑN	<1.0	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	00000
21.77	D. Carrie	-10	<1.0	Ϋ́	o'‡>	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	× 0.0050
***************************************		- 13	<1.0	NA	0,15	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		20	<1.0	NA	<1.0	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
* C C C		27		ΝA	<1.0	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0,0050
B2-13A	Aug-03	0	0.17	ΔN	0 1>	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		2 4	2: //	NA	0 12	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		0.00	0.47	NA	\$1.0 \$1.0	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
		02	0.17	C+ /	0 1 0	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
MW-11-5	Nov-04	o ,	0, 4	2 0	0 1 0	< 0.050 < 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
MW-11-10		0.5	0,1	2 4	410	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
MW-11-15		2.00	0,00	200	0.1.0	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
MW-11-20		7.7	0,1	0,0) v	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
MW-11-25		G7	0.17	2 4	2.7	0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
MW-12-5.5	Nov-04	5.5	0,1.5	200	, v	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
MW-12-10		OL.	0.17	95 050	130 8	× 10 8	< 0.10 B	< 0.10 8	< 0.50 B	< 0.50	< 0.50 ^a
MW-12-15		15	4,100	ODE	907	0300	0.0060	00000	< 0.010 '	< 0.010 /	< 0.010 7
MW-12-20.5		20.5		2010	9.4.6	0000	0.0000	0.0000	< 0.050	< 0.050	< 0.050 /
MW-12-25		25	2,700	069	8,9	< 0.050	02000	0.0030	00000	00000	< 0.0050
MW-13-6	Nov-04	9	< 1.0	< 10	× 1.0	< 0.050	< 0.0050	0.0050	0.0000	00000	0.0000
MW-13-12		12	<1.0	× 10	v 1.0	0.050 >	00000 >	ngnnn v	8 03 0 v	8 03 0 V	B 0200
MW-13-15		15	610 1	150 "	170 "	< 1.0	< 0.10 >	< 0.10	0.00	0.30	0.500
MW-13-20		20	< 1.0	< 10	< 1.0	< 0.050	< 0.0050	00000 >	00000	0.0000	00000
MAY-13-25		25	6.5	v 10	< 1.0	< 0.050	< 0.0050	< 0.0050	< 0.0050	nenn'n >	00000
ASIA) 44 G	NowOd	E	20	< 10	3.5	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
0 + 1 - 1 A A A A	200	10	1.2.1	× 10	< 1,0	< 0.050	< 0.0050	< 0,0050	< 0.0050	< 0.0050	< 0.0050
AMA 44 45 E		15.5	< 1.0	× 10	0,1 ^	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
MAN.14-13.3		22	< 1.0	01. ×	< 1.0	< 0.050	< 0.0050	< 0.0050	< 0,0050	< 0.0050	< 0.0050
MAN. 44.25		25	3.5	< 10	< 1.0	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0050 >
22-11-22 D2-14-5	Annuile	5	× 1,0	10	< 1,0	< 0.050	< 0.0050	< 0,0050	< 0.0050	< 0.0050	< 0.0050
R2-14-5 75	25 (24)	5.75	< 1.0	13	< 1.0	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
R2_45_5	Apr-06	5	< 1,0	< 10	0,1 >	< 0.050	< 0.0050	< 0.0050	0500.0 >	00000	00000
B2-16-5		5	< 1.0	< 10	< 1.0	< 0.050	< 0.0050	< 0.0050	< 0.0050	× 0.0050	0.0050
B2-17-5		5	< 1.0	< 10	< 1.0	< 0.050	< 0,0050	< 0.0050	v 0.0050	Ocoo.	0.0000
B2-16-5b	May-06	5	< 1.0	< 10	< 1.0	< 0.050	< 0.0050	< 0.0050	< 0.0050	0.0050	0.0050
R2~16-6.5b		6.5	< 1.0	v 10	< 1.0	< 0.050	< 0.0050	0500.0 >	000000	0.0000	0.0000
R2-17-5b		5	< 1.5 ¹¹	54	< 1.0	< 0.050	< 0.0050	< 0.0050	< 0.0050	× 0.0050	000000
R2_17-R 5h		6.5	< 1.0	< 10	< 1.0	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0000
BANN 15.5	Mav-06	5	< 1,0	× 10	< 1.0	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	oson >
0-01-141A		01	950	130 10	830 6	< 0.50	< 0.050 13	< 4.0 %	< 10 %	< 5.0 13	× 10 ×
MVV+13-10		15	× 1.0	< 10	< 1.0	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
MAY-13-13		20	0,1 ^	< 10	4.1 12	< 0.050	< 0.0050	< 0.0050	< 0,0050	< 0,0050	< 0.0050
19177 + 13-20	90-74-09	-	× 1.0	< 10	< 1.0	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	× 0.0050
MAY 15-0	OG-KBIAI	10	< 1.0	× 10	< 1.0	< 0.050	< 0.0050	< 0,0050	< 0.0050	< 0.0050	< 0.0050
MMM-15-10		15	< 1,0	< 10	0'1.>	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
OF 34 10mm		000	0,1 >	× 10	< 1.0	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	v 0.0050
UIVV-101-2V		- No. 100		Control of the Contro	TO THE PERSON NAMED IN COLUMN	- The San Control		- Company			

3 of 4

HISTORIC SOIL ANALYTICAL RESULTS - UST Hold #1, 2, 3, 4 BLUE LAKE FOREST PRODUCTS **TABLE 2**

* IPH-D by EPA 8015, BTEX by EPA Method 8020.

A Total Xylenes by EPA Method 8020.

Total Xylenes by EPA Method 8020.

TPH-Dieset analysis by EPA 3550(GCFID using a silica gel clean-up, however, due to low surrigate recovery in many such analysis, a "prie-cleaned" standard TPH-D analysis by EPA 3550(GCFID using a silica gel clean-up, however, due to low surrigate recovery in many such analysis, a "prie-cleaned". All diese insulis represent IPH-Gas analysis by EPA 80218/5035.

Sample contains material similar to degraded or weathered diesel

2. Contained material in the diesel range of molecular weights and beyond. Suggests presence of oil heavier than diesel Surrogate could not be quantified due to sample ditution.

4 Contained material beyond diesel range, suggests presence of an all heavier than diesel, the amount of which was not included in the reported result. 5 The tow surgidate recovery may be due to matrix interference.

6. Sample does not have the typical pattern of fresh gasoline, result reported represents the amount of material in gasoline range.

9 The surrogate sample could not be quantified due to matrix

8 Samples diluted and the reporting limits raised additionally due to matrix interference. 7 Some reporting limits raised due to matrix interference.

12. Sample does not represent a peak patient consistent with that of gasoline. The peaks blue toward the end of the gasoline range, in the laboratories judgement, the material appears to be a product heavier than gasoline.

Due to differences in the purphing efficiency of these heavier materials the results may be variable. The reported results represent the amount of material in the gasoline range. 10 Sample does not have the typical pattern of fresh motor oil. The material is fighter than motor oil. However, the result reported represents the amount of material in the motor oil range. 11 Due to contaminate present in the method blank, the reporting limit was raised.

TABLE 3 SOIL ANALYTICAL RESULTS COLLECTED DURING OVEREXCAVATION BLUE LAKE FOREST PRODUCTS

Tert-amyl methyl ether (TAME)	< 0.020	M	E !	Z	Z	< 0.020	Z	< 0.020	Ę	< 0.020	< 0.020	Z	Ė.	< 0.020	4 0.020 NT	Ţ	ķ	N	ž	¥	< 0.020	ΝI	< 0.020	M	c 0.020	0.040	N 0000	0.020	< 0.020	< 0.020	Z	Ę	z	Į	Ĭ	N	Z	IN	Į,	Z L	Į.	Ž	₽	Ņ	ŊĮ	¥.	Z	IN IN	Ň
Ethyl tert- butyl ether (ETBE)	< 0.020	Į.	ž!	Z.	Z	< 0.020	ž	< 0.020	Ė	< 0.020	< 0.020	ī	ž	< 0.020	4 0.020 NIT	FV	ž	Þ	Ę	Ħ	< 0.020	TM	< 0.020	Þ	4 D.D20	20.020	N 000	0000	< 0.020	< 0.020	Ä	LN.	Z	Į	Ę	ΙN	IN.	Ľ	Z.	Z	17	ĪΝ	žΣ	Z	N	Z	Z S	Ž	Z
Di-Isaproply ether (DIPE)	< 0.020	ΝŢ	Ę	ž!	Z	< 0.020	Z	< 0.020	μ	< 0.020	< 0.020	E	z	< 0.020	< 0.020	Į.	Ž	Ę	Þ	Ä	< 0.020	Z	< 0.020	K	< 0.020	2 0.020	N C	0.020	< 0.020	< 0.020	Þ	Þ!	Ž	ž	Ň	N	N	NI	ĮŅ.	Z	Z.IV	ï.N	, N	IN	NT	N	IN S	<u> </u>	Z
Ten-butyl alcohol (TBA)	< 0.50	¥	Þ	z	Z	< 0.50	Ż	< 0.50	Ż	< 0.50	< 0.50	Ļ	Z	< 0.50	4 0.50 MT	Ę	z	Ż	Þ	Ę	< 0.50	Þ	< 0.50	ĻΝ	< 0.50	06.U.S	Z	00.00	× 0.50	< 0.50	Ż	z.	ž	Į	Ž	TN	Ż	ž	Į.	Ž	2 2	Ę	Z	ħ	ΤN	Į	12 !	2 2	2
"o" Xylene (ppm)	< 0.0050	< 0.010	< 5.0	< 2.8	< 7.0	< 8.0	< 30 .	< 0.0050	< 1.7	< 0.0050	< 0.020	< 0.60 *	< 2.0 7	< 0.0050	< 0.0050	4.45	09000 >	× 9.5 4	<654	< 0.0050	< 0.70 *	< 2.5 4	< 0.0050.	< 10,	× 0.0050	4 0.06U	< 0.010	Denn'n v	05000 >	< 0.0050	< 0.0050	<0.035	070.02	<0.050	<0.090	<0.035	<0.15	<0.065	Z	2	Z IZ	Ę	Þ	Ŗ	N	¥	Į.	NE	NT
m.p Хуlепе (ppm)	< 0.0050	< 0.0050	< 2.0 °	< 0.55	< 2.4	< 3.4 4	< 12.	< 0.0050	< 0.50 °	< 0.0050	< 0.0050	< 0.10 *	< 0.50 *	< 0.0050	< 0.0050	4604	× 0.0050	×324	A 30 4	< 0,0050	< 0.20 4	< 1.54	< 0.0050	< 4.04	< 0.0050	× 0.030	< 0.0050	c 0.0050	< 0.0040	< 0.0050	< 0.0050	<0.015	40.020	<0.015	<0.10	<0.010	<0.040	<0.020	E	Z		ž	Ż	ž	ź	±Z	Į.	Z	į
Ethyt-benzene (ppm)	< 0.0050	< 0.0050	< 4.0 4	< 2.3	< 6.0	× 8.0 4	< 30 *	< 0.0050	< 1.6	< 0,0050	< 0.010 ³	< 0.70 *	, d.f.	< 0.0050	< 0.0050	P 31. 7	C 0 0050	< 7.54	× 6.5 4	< 0.0050	< 0.50 *	< 2.54	< 0.0050	× 10 4	< 0.0050	90.08	< 0.0050	nann'n >	< 0.050	< 0.0050	< 0.0050	<0.020	<0.010	CD 040	<0.10	<0.020	<0.15	<0.050	Į.	2	2 2 2	17	ž	Ę	¥	M	¥	2 2	TZ.
Tolvene (ppm)	< 0.0050	< 0.0050	× 0.50 +	< 0.10	< 2.5	< 3.4 *	< 15 '	< 0.0050	× 1.0 *	< 0.0050	< 0.0050	< 0.10	< 0.50 *	× 0.0050	< 0.0050	40,7	< 0.0050 ×	, 0.0>	4 18 4	< 0.0050	< 0.050 4	< 1.2 "	< 0.0050	< 3.0 4	< 0.0050	v 0.020	< 0.0050	< 0.0050	× 0.0030	< 0.0050 ×	< 0.0050	<0.0050	<0.0050	CO 010	<0,0050	<0.0050	<0.0050	<0.0050	Þ	ž!	Z L	NT.	Ā	N.	Ę	NT	E :	N N	Ņ
Вепхеле (ррт)	< 0.0050	< 0.0050	< 0.50 %	< 0.10 °	c 0.10 °	< 0.10 *	< 0.50 ~	< 0.0050	< 0.10.	< 0.0050	< 0.0050	< 0.10 *	< 0.50 "	< 0.0050	< 0.0050	1000	2 0 00 SO	× 0 10 4	< 0.050 4	< 0.0050	< 0.050 ⁴	< 0.050 4	< 0.0050	< 0.050 4	< 0.0050	< 0.010	< 0.0050	> 0.0050	00000	< 0.0050	< 0.0050	<0.0050	40 0050 40 0050	C0.0050	<0.0050	<0.0050	<0.0050	<0.0050	Į.	Z	2 2	į	Ņ	N	N	Ę	5		ż
МТВЕ (ррт)	<0.050	< 0.050	< 5.0	× 1.0 ,	× 1.0 "	× 1.0 *	× 5.0 *	< 0.050	< 1.0 *	< 0.050	< 0.050	< 1.0 4	< 5.0 °	< 0.050	< 0.050	0.00	0.00	* 0 t >	× 0 50 *	< 0.050	< 0.50 h	< 0.50 *	< 0.050	< 0.50 *	< 0.050	< 0.10	4 0.050	v 0.050	0.000	< 0.050	< 0.050	<0.050	V 0050	CO 050	<0.050	<0.050	<0.050	<0.050	Ę	Z	Z	I N	TN	ż	ž	Į	Z.	2 2	LV.
ТРН-С (ррм) МТВЕ (ррм)	c1.0	3.8 2	440 4	200	650	850 2	2,400 -	<1.0	240	3.2	10 2	150 2	420 4	< 1.0	× 1.0	330	1,400	860 2	680 2	< 10	180 ²	400 2	< 1.0	1,400 2	< 1.0	79.	9.9	× 1.0	7180	× 1.0	< 1.0	290	240	190	250	160	220	170	120	130	130	140	130	100	190	N	N	Z	M
TPH-MO (ppm)	<10	280	200 8	190	400	230 8	540 °	×10	140	<10 5	13 0	200 6	330	< 10 °	c 10 °	400	0,10	< 500 4	< 500 4	× 10	25 6	450 6	< 10	430 ¢	۷ ب	300	15	4.10	140	o 10	< 10	310	300	83	230	190	210	230	<500	<500	0000	2005	4500	<500	<500	ZZ	Z	270	120
TPH-D (ppm)	2.01	35	1,400 \$	1,200 3	2,400 °	1,400 7	3,400 '	3.0 5	1,300	5.0	86 3	1,700 5	2,600 3	2.0 %	3.2 %	3,600	0,400	2 400 5	2 600 5	8.1.8	230 4	4,300 5	< 1.0	3,700 =	د 1.0	1,700	813	41.0	630	6.1.5 c 1.0	< 1.0	1,300	1,200	180	1.000	830	1,100	1,000	986	1,100	2021	1 100	840	1.200	1,100	640	760	730	270
Date	6/17/04	6/17/04	6/17/04	6/17/04	6/17/04	6/18/04	6/18/04	6/18/04	6/21/04	6/21/04	6/22/04	6/22/04	6/22/04	6/23/04	6/23/04	5/24/04	5/24/U4	P015-210	PUSCUS.	6/25/04	6/28/04	6/29/04	6/29/04	6/30/04	6/30/04	6/30/04	7/1/04	7/1/04	7/2/04	7/2/04	7,77,04	9/B/04	9/8/04	- COURT	9/B/Q4	9/B/04	9/8/04	9/8/04	9/24/04	9/24/04	5/24/04	10/52/6d	9/24/04	9/24/04	9/24/04	9/28/04	9/28/04	10/14/04	10/14/04
Baríng	8l,FP-1-10	BLFP-2-6	8LFP-3-10	9LFP-3-15	BLFP-4-10	BLFP-5-10	BLFP-6-10	BL FP-7-10	BLFP-8-13	BLFP-7-20	Bt FP-9-20	Bt FP-10-19	BLFP-11-12	Bl.FP-12-20	BLFP-13-8	BLFF-14-15	D CD 48 45	BI ED:47.10	RI ED. 18.13	BI #P-19-20	R FP-21.9	BL PP-22-11	BLFP-23-10	BLFP-24-10	BLFP-25-17	BLFP-26-8	BI.FP-27-10	BLFP-26-14	BLFP-28-/	8L-FP-30-18	BLFP-31-7	Stockpile-NW-1	Stockpile-NW-2	Sinckpile-NW-5	Sinckolle-SW-2	Stockpite-NE-1	Stockpite-NE-2	Stockpile-NE-3	TSP1-a-092404	TSP1-b-092404	1SP1-0-092404	TCD2 5 00404	TCP2.9.097404	TSP4-a-092404	TSP4-b-082404	TSP1-Spread1-092804	TSP1-Spread2-092804	BLFP-3-DUP	BLFP-20-DUP

TPH/DANG by EPA 350.

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GROUNDWATER ANALYTICAL RESULTS BLUE LAKE FOREST PRODUCTS **TABLE 4**

		_		T	Т			-	_	_	_	_					- {	_1						
Lead (ppb)	< 5	LN.	LN	LN	Z	TN	< 5	N	r Z	LN.	ĽΝ	NT	< 55	LN	ĽΖ	۲	ĽZ	LΝ	ςς V	LN	TN	TN	TN	LN
"o" Xylene (ppb)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0,50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
m,p Xylene (ppb)	< 0.50	< 0.50	< 0,50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	09'0>	< 0,50	< 0.50	< 0.50	< 0.50
Ethyl- Benzene (ppb)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0,50
Toluene (ppb)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	09'0 >	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzene (ppb)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.1	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
TAME Tert-amyl methyl ether	< 1.0	TN	TN	FN	N	FN	< 1.0	TN	본	FN	LZ.	μN	< 1.0	LΝ	ΤN	N	Z	TN	< 1.0	F	F	IN	NT	L
ETBE Ethyl tert-butyl ether	< 1.0	Þ	ΙΝ	ĻΝ	TN	LN	< 1.0	TN	ΗN	TN	TN	TN	< 1.0	FZ	F	F	Į.	NT	< 1.0	ħ	LN	N	FZ	LN
DIPE Di-Isopropyl ether	< 1.0	Ł	L Z	F	LZ	Ħ	0,1 >	۲N	LN	ΙΝ	Į	Ϋ́	< 1.0	ŁZ	ΙΝ	ΡZ	EZ	FZ	< 1.0	E	LZ.	Ę	Ĭ	LN
TBA Tert-butyl alcohol	< 10	F	IN	TN	L	FN	< 10	N	L	Ĭ	IN	N	< 10	TN	LN	LN	LZ LZ	닐	< 10	F	ΤN	Ā	ŢN	ΙN
MTBE Methyl tert-butyl ether (ppb)	< 1.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	A 1.0	< 3,0	< 3.0	< 3.0	< 3.0	< 3,0	< 1,0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 1.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
TPH-Gas (ppb)		> 50	< 50	< 50	< 50	< 50	280 3	72 3	56 3	89 3	× 50	v 50	220 3	< 50	× 50	73³	< 50	< 50	< 50	× 50	< 50	< 50	< 50	< 50
(pdd)	N	< 170	< 170	< 170	< 170	< 170	LN	< 170	< 170	< 170	< 170	< 170	FN	< 170	< 170	< 170	< 170	< 170	LN TN	< 170	< 170	< 170	< 170	< 170
TPH-Diesel (ppb)	< 50 ²	< 50	< 50	< 50	< 50	< 50	5700 1.2	1901	590 1	1907	57 1,2	< 50	580 1.2	< 50	< 50	100 1	< 50	< 50	< 502	< 50	< 50	< 50	< 50	< 50
Date	12/2/04	3/26/05	6/15/05	9/19/05	12/21/05	3/14/06	12/3/04	3/26/05	6/16/05	9/19/05	12/21/05	3/14/06	12/3/04	3/26/05	6/16/05	9/19/05	12/21/05	3/14/06	12/3/04	3/26/05	6/15/05	9/19/05	12/21/05	3/14/06
Sample				MW-11				1		Z1-WW	1	1	-	1	1	MW-13	1	I			1	MW-14	1	

Notes:

- Sample contains material similar to degraded or weathered diesel oil.
 The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) recoveries were above the upper acceptance limit for diesel.
 These recoveries indicate that the sample results may be erroneously high. There were no detectable levels of the analyte in the samples; therefore, the data were accepted.
 Samples do not present a peak pattern consitant with that of gasoline. The peaks elute toward the end of the gasoline range.
 The material appears to be a product heavier than gasoline. The reported results represent the amount of material in the gasoline range.

TABLE 5 GROUNDWATER GRADIENT BLUE LAKE FOREST PRODUCTS

Date of Data Collection	Groundwater Flow Direction	Degrees Azimuth	Slope in Feet Per 100 Feet
2-Dec-04	South	179.88	1.29
26-Mar-05	South-Southwest	196.35	1.85
15-Jun-05	South	179.90	1.07
19-Sep-05	South	178.41	1.43
21-Dec-05	South-Southwest	200.30	1.79
14-Mar-06	South-Southwest	194.84	2.19
Average		188.28	1.60
Standard Deviation		9.91	0.41

WINZLER & KELLY CONSULTING ENGINEERS

STANDARD OPERATING PROCEDURES for SOIL BORING AND MONITORING WELL INSTALLATION

1. Objective

To establish accepted procedures for sampling soil and water from hollow-stem auger or direct push borings.

2. Background

During subsurface investigations it is necessary to obtain discrete soil and water samples from below the ground surface. Typically, heavy equipment is necessary to obtain these samples. This SOP establishes the procedures for collecting soil and groundwater samples from borings.

3. Personnel Required and Responsibilities

<u>Project Manager</u>: The Project Manager (PM) is responsible for ensuring that field personnel have been trained in the use of these procedures and for verifying that drilling water and soil sampling activities are performed in compliance with this SOP.

<u>Project Scientist</u>: The responsible professional in charge of the field work must determine the exact location and depth of each boring, and decide on the sampling interval. The project scientist must collect samples, prepare them for transport to the laboratory, and record lithologic and other observations. The Project Scientist is responsible for complying with this SOP.

<u>Driller (Subcontractor)</u>: An appropriately licensed (C57) contractor must be equipped with truck- or tractor-mounted auger or direct push boring equipment and an OSHA-certified crew. The Driller is responsible for the safety and conduct of their employees. In addition, the Driller is responsible for the installation of borings according to the details specified in the Workplan. The Driller is responsible for maintaining industry standards and complying with the contract.

4. Equipment Required

Truck or tractor mounted auger or direct push rig

- Split spoon sampler or direct push sample barrel
- Brass or stainless steel sample liners and plastic end caps
- Aluminum foil or Teflon sheeting
- Steam cleaner
- Containers for rinsate
- Disposable gloves
- Sample labels
- Munsell color charts
- Putty knife

- Boring logs
- Photoionization detector (PID)
- Ice/ice chest
- Sealable plastic storage bags
- Indelible marker

5. Procedure

Borings will be installed using hollow-stem augers, or 2-inch diameter pushrods. Borings will extend to the groundwater surface or deeper as specified by the project requirements. Typically, soil samples will be obtained either continuously, or at a minimum of 5-foot intervals for lithologic logging, on site field screening, and potential chemical analyses. Additional soil samples will be obtained at any notable changes in lithology and at any obvious areas of contamination.

- Soil samples will be collected in a split spoon sampler or direct-push sample barrel lined with clean brass or stainless steel sleeves. A six-inch interval of the sample will be capped with aluminum foil or Teflon sheeting and plastic end caps, labeled, wrapped in a plastic storage bag and stored in a cooler, on ice. Sample numbers and depths will be noted on the boring logs.
- The remaining sample will be used for color and soil type classification using the Unified Soil Classification System and Munsell color charts. A portion of each sample will be field-screened with a photo-ionization detector. Results of classification and field screening will be recorded on the boring logs.
- Sample equipment will be decontaminated with Alconox soap and distilled water between sampling intervals.
- Augers or push casing will be steam cleaned between each boring.
- If a hydropunch sampler is to be used to collect water samples, borings will terminate at the groundwater surface. A hydropunch-type groundwater sampling device will be lowered into the hollow stem augers or the drive casing, and driven three to four feet into the aquifer. Groundwater will be allowed to flow into the hydropunch.
- If a hydropunch type sampler is not used, the boring will be extended 3 to 5 feet into the aquifer. The augers or drive casing will be pulled back to allow for water to enter the boring. If caving of the bore hole occurs, temporary PVC casing may be lowered into the drive casing or hollow stem augers prior to retraction of the drive casing.
- Groundwater will be sampled using a small diameter stainless steel or disposable polyethylene bailer.
- Groundwater samples will be transferred from the bailer to appropriate size/type containers with the appropriate preservatives, as required by the project needs. Precautions will be taken to avoid capturing air bubbles in the samples. Sample containers will be labeled, wrapped in plastic bags and stored in a cooler, on ice. The water samples will be transported to a State-certified laboratory for the appropriate chemical analyses.
- Soil borings will be closed by filling to the surface with a cement/bentonite grout mixture, not exceeding 5% bentonite. The locations of each boring will be marked with spray paint.

WINZLER & KELLY CONSULTING ENGINEERS

STANDARD OPERATING PROCEDURES for SOIL AND WATER SAMPLING FROM A BORING

1. Objective

To establish accepted procedures for sampling soil and water from hollow-stem auger or direct push borings.

2. Background

During subsurface investigations it is necessary to obtain discrete soil and water samples from below the ground surface. Typically, heavy equipment is necessary to obtain these samples. This SOP establishes the procedures for collecting soil and groundwater samples from borings.

3. Personnel Required and Responsibilities

<u>Project Manager</u>: The Project Manager (PM) is responsible for ensuring that field personnel have been trained in the use of these procedures and for verifying that drilling water and soil sampling activities are performed in compliance with this SOP.

<u>Project Scientist</u>: The responsible professional in charge of the field work must determine the exact location and depth of each boring, and decide on the sampling interval. The project scientist must collect samples, prepare them for transport to the laboratory, and record lithologic and other observations. The Project Scientist is responsible for complying with this SOP.

<u>Driller (Subcontractor)</u>: An appropriately licensed (C57) contractor must be equipped with truck- or tractor-mounted auger or direct push boring equipment and an OSHA-certified crew. The Driller is responsible for the safety and conduct of their employees. In addition, the Driller is responsible for the installation of borings according to the details specified in the Workplan. The Driller is responsible for maintaining industry standards and complying with the contract.

4. Equipment Required

- Truck or tractor mounted auger or direct push rig
- Split spoon sampler or direct push sample barrel
- Brass or stainless steel sample liners and plastic end caps
- Aluminum foil or teflon sheeting
- Steam cleaner
- Containers for rinsate
- Disposable gloves
- Sample labels
- Munsell color charts
- Putty knife

- Boring logs
- Photoionization detector (PID)
- Ice/ice chest
- Sealable plastic storage bags
- Indelible marker

5. Procedure

Borings will be installed using hollow-stem augers, or 2-inch diameter pushrods. Borings will extend to the groundwater surface or deeper as specified by the project requirements. Typically, soil samples will be obtained either continuously, or at a minimum of 5-foot intervals for lithologic logging, on site field screeing, and potential chemical analyses. Additional soil samples will be obtained at any notable changes in lithology and at any obvious areas of contamination.

- Soil samples will be collected in a split spoon sampler or direct-push sample barrel lined with clean brass or stainless steel sleeves. A six-inch interval of the sample will be capped with aluminum foil or teflon sheeting and plastic end caps, labeled, wrapped in a plastic storage bag and stored in a cooler, on ice. Sample numbers and depths will be noted on the boring logs.
- The remaining sample will be used for color and soil type classification using the Unified Soil Classification System and Munsell color charts. A portion of each sample will be field-screened with a photo-ionization detector. Results of classification and field screening will be recorded on the boring logs.
- Sample equipment will be decontaminated with Alconox soap and distilled water between sampling intervals.
- Augers or push casing will be steam cleaned between each boring.
- If a hydropunch sampler is to be used to collect water samples, borings will terminate at the groundwater surface. A hydropunch-type groundwater sampling device will be lowered into the hollow stem augers or the drive casing, and driven three to four feet into the aquifer. Groundwater will be allowed to flow into the hydropunch.
- If a hydropunch type sampler is not used, the boring will be extended 3 to 5 feet into the aquifer. The augers or drive casing will be pulled back to allow for water to enter the boring. If caving of the bore hole occurs, temporary PVC casing may be lowered into the drive casing or hollow stem augers prior to retraction of the drive casing.
- Groundwater will be sampled using a small diameter stainless steel or disposable polyethylene bailer.
- Groundwater samples will be transferred from the bailer to appropriate size/type containers with the appropriate preservatives, as required by the project needs. Precautions will be taken to avoid capturing air bubbles in the samples. Sample containers will be labelled, wrapped in plastic bags and stored in a cooler, on ice. The water samples will be transported to a State-certified laboratory for the appropriate chemical analyses.
- Soil borings will be closed by filling to the surface with a cement/bentonite grout mixture, not exceeding 5% bentonite. The locations of each boring will be marked with spray paint.

WINZLER & KELLY CONSULTING ENGINEERS

STANDARD OPERATING PROCEDURES for MONITORING WELL INSTALLATION AND DEVELOPMENT

SECTION I. MONITORING WELL INSTALLATION

1. Objective

To establish accepted procedures for the installation of monitoring wells for sites under investigation or remediation from impacts with chemical contaminants.

2. Background

Monitoring wells are used for subsurface investigation and remediation projects. Well-designed monitoring wells provide data on groundwater movement, groundwater quality, seasonal water table fluctuations, rates of natural attenuation, and changes in contaminant concentrations through time. Monitoring wells are installed in accordance with the California Well Standards (Department of Water Resources Bulletin 74-90) and with the appropriate lead agency guidelines.

3. Personnel Utilized and Responsibilities

Registered Professional: A Registered Professional (RP) is responsible for ensuring that the monitoring wells are properly installed, that the possibility of cross contamination between aquifers has been minimized, and that the well installation will achieve its desired purpose. The RP oversees the project and ensures that field personnel have been trained in the use of this procedure.

Project Scientist: The responsible professional in charge of fieldwork must determine the location and depth of each well, and decide on the sampling interval. The project scientist oversees installation of the well, collects samples and prepares them for transport to the laboratory, and records lithologic and other observations. The Project Scientist is responsible for site safety and health and compliance with this SOP and for submittal of the well completion report to the Department of Water Resources.

Staff Technician: A staff technician has 0.5 to 5 years experience logging borings, installing and developing monitoring wells. The staff technician is responsible for complying with these procedures, lithologic logging, collection of samples, and field documentation, and development of wells prior to sampling. The staff technician will call the RP with field observations and contaminant data to obtain approval of final well design.

Driller (Subcontractor): An appropriately licensed (C57) drilling contractor must employ an OSHA-certified crew. The Driller is responsible for the safety and conduct of their employees and complying with the project specifications described in the Workplan and

contract. All drilling and sampling methods will be consistent with ASTM Method D-1452-80, and local, state, and federal regulations. The Driller is responsible for installing monitoring wells according to pertinent agency standards.

4. Equipment Required

- Well Installation permit, Access Agreements, and other permits as needed
- Copy of approved Workplan with site Safety Plan included
- Minimum Level D personal protective equipment
- Downhole sampler with brass or stainless steel liners, Teflon sheeting, and end caps
- Photoionization detector (PID) / sealable plastic storage bags
- Boring Log form / Munsell color charts / USCS soil classification system chart
- Sample containers provided by the laboratory OR
- EnCore® Sampling kit and soil cartridge containers
- Sample labels/Indelible marker/Chain of Custody forms
- Disposable gloves
- Ice chest with ice

5. Procedure

Winzler & Kelly will obtain all permits to perform drilling work unless contractually directed otherwise. Winzler & Kelly will prepare a site Safety and Health Plan detailing project hazards and controls, personnel decontamination, and emergency response procedures.

At least 48 hours before drilling, Winzler & Kelly personnel will contact Underground Services Alert (USA), or similar utility location service, to have subsurface utilities located and marked within the work area previously delineated with white paint. In order to ensure that the locations of subsurface utilities are known, Winzler & Kelly may perform a site inspection, contact individuals familiar with the work site, review as-built drawings, and may employ a private utility locator. When subsurface utilities are suspected, the first five feet of each boring will be advanced using a hand auger or posthole digger.

All monitoring wells are installed using a truck-mounted hollow-stem auger drill rig, unless site conditions require a different drilling method. All drilling equipment will be maintained and inspected daily. A drill rig kill switch mechanism will be operational and within reach of anyone working near the drill.

All down-hole drilling equipment will be cleaned and decontaminated prior to arriving at the site. Working components of the drill rig, drill stems, and augers are steam cleaned between monitoring well locations.

When ever possible, the first boring will be sampled to provide a continuous core to obtain a complete lithologic section of the boring. In subsequent borings, soil samples will be collected at approximately five-foot intervals to the total depth explored. Soil samples may also be collected from differing lithologies or areas of obvious contamination. Samples will be collected using a California-modified split spoon sampler driven 18 to 24 inches into native material beyond the auger bit. The split spoon will be driven using a 140-pound hammer dropped from 30 inches. The

number of blow counts required to drive the sampler each six-inch interval and the volume of soil recovered will be recorded on the well log. If copper or zinc contamination is being investigated, stainless steel liners will be used in lieu of brass.

Metal soil sample tubes selected for laboratory analysis will be covered on both ends with Teflon tape and sealed with plastic end caps. Samples will be labeled, recorded using Chain of Custody documentation, and placed into a chilled cooler for transport to the analytical laboratory. Soil in the remaining tubes will be retained for lithologic description and organic vapor analysis. Headspace organic vapor analysis will be accomplished by placing a hand sample of soil into a sealable plastic bag and allowing the sample to raise to ambient temperature. The probe of the PID will used to penetrate the bag to sample the headspace. The peak organic vapor reading is recorded on the well log.

Classify soil types and log observations using the Unified Soil Classification System (ASTM Visual Manual Procedure D 2488-84) and Munsell Soil Color Charts. Include observations on lithology, moisture, density, plasticity, and sample depths on the boring logs as appropriate.

An aquitard or aquiclude (clayey layer), three feet in thickness or greater, encountered beneath a saturated permeable layer, should be considered to be a possible confining layer to deeper aquifers. In order to prevent possible cross-contamination of a deeper aquifer, drilling will be stopped and the project manager or geologist consulted to determine how to proceed.

Soil drill cuttings are stockpiled on plastic and covered with additional plastic to control runoff or stored in 55-gallon DOT approved drums and left on site. Waste soil is sampled and analyzed to prepare a profile necessary for disposal and hauled by a licensed transporter to an appropriate licensed facility. All waste stored on site is labeled at the time of production.

6. Well Design and Construction

All well construction is performed in accordance with Department of Water Resources "California Well Standards" and all requirements of local oversight agencies. Borings for two inch monitoring wells will be a minimum of 8 inches in diameter and a minimum of 10 inches in diameter for four-inch wells. Monitoring wells are constructed of schedule 40 PVC casing unless site geochemistry or contaminant types dictate use of another material. The wells are constructed with factory-cut slots and threaded coupling between casing sections and caps.

The screened portion of the well is positioned so that it extends approximately ten feet into the water-bearing zone and approximately five feet above the maximum expected water elevation. The screened interval may extend less than five feet above the maximum water level to prevent intersection of well screen with the confining layer at the top of a confined aquifer, or where the water table is too shallow to allow for adequate construction of the well seal. Careful consideration should be given to the specific gravity of the contaminants of concern and screening the upper or lower portion of the aquifer.

A graded sand filter pack is placed in the annular space across the screened interval and extended at least one foot above the screen. This additional sand helps to prevent bentonite hole plug from entering the well screen if compaction of the filter pack occurs. The well screen slot size should be capable of retaining 90% of the filter pack material. Typically, 0.010-inch slots are used where

the aquifer material is predominantly clay and /or silt or poorly graded fine sand. A slot size of 0.020 inch is used when the water bearing formation is well-graded medium to coarse sand and/or gravel.

The silica sand filter pack grain size is selected according to aquifer material type as follows:

- For poorly graded fine sand or silt and clay four times the 70% retained grain size of the formation;
- For medium to coarse sand, gavel or well-graded sediments six times the 70% retained grain size.

Since results of particle size sieve analysis may not be available, filter pack selection may be performed on the basis of stratigraphy, using the finest grain size unit to be encountered in the screened interval as the defining particle size. Commonly selected grades of filter sand are 1/20 (or equivalent) for use with 0.010 inch slots and 2/12 or 2/16 (or equivalent) for use with 0.020 inch slotted screens.

The filter pack should be added slowly to fill the annular space between the well screen and the sides of the boring. The filter pack sand can be emplaced either through the hollow stem of the auger as the auger is removed or in the open hole surrounding the well casing if soil conditions permit. Uniform placement of the filter pack must be monitored during placement to ensure that bridging, or formation of an air gap, does not occur. The placement of the filter pack is monitored using a weighted tape measure to gauge the rate of filter sand placement and break any bridges. A bridged filter pack will eventually collapse and possibly result in failure of the bentonite well seal and impair the well surface seal.

A minimum one-foot seal of bentonite is placed above the sand filter pack. The bentonite seal is hydrated by either formation or potable water. Neat cement or a cement/bentonite mixture seals the remaining annular space to the surface. If bentonite is used in the grout mixture, it must not exceed 5% of the mixture, by weight. The grout may be placed using a tremie pipe, if the grout column will be longer than 20 feet or if water is present in the annular space above the bentonite seal.

A watertight locking cap and protective traffic-rated vault is installed on top of each well. The traffic-rated vault will be set in concrete and be raised slightly above the surrounding grade to ensure that rainwater or other drainage water does not pool over the wells.

Well construction details are presented on the soil boring log sheet for each well. Waterproof tags are attached to each well casing to provide data on well identification, installation date, and as-built construction details. Winzler & Kelly completes and submits or determines that adequate information has been provided to the Driller for him to complete and submit the required Well Completion Report to the Department of Water Resources.

The last page of this SOP illustrates a Typical Monitoring Well Construction Detail.

To make well data suitable for inclusion in the State of California GeoTracker GIS network, well location data must be surveyed horizontally to within than one meter accuracy using latitude/longitude coordinates and surveyed vertically to within 0.01 foot relative to mean sea level.

SECTION II. MONITORING WELL DEVELOPMENT

1. Objective

To establish accepted procedures for conducting well development prior to purging and sampling activities in accordance with standard practices by engineering professionals.

2. Background

Following the installation of a monitoring well, it is necessary to develop the well in order to adequately remove the silt and clay (fines) from the filter pack material and in the immediate proximity of the well, in order to minimize the infiltration of fines throughout the life of the monitoring well.

3. Personnel Required and Responsibilities

Project Manager: The Project Manager (PM) is responsible for ensuring that field personnel have been trained in the use of these procedures and for verifying that the development procedures are performed in compliance with this SOP. At a minimum, the PM will maintain contact with the client or contractor involved, will be available by phone during the field activities and will review field notes for completeness.

Field Geologist/Field Engineer/Soil Scientist/Technician: The field staff person assigned to the project is responsible for complying with this SOP. Responsibilities include preparation for field activities, ensuring equipment is in working order and clean prior to the field event, providing adequate field documentation of events, observations, readings, measurements, volume of water, and overall development activities.

4. Equipment Required

- Tool Box
- Disposable gloves
- Decontamination supplies
- Water Level Meter/tape and paste/other device
- Measuring tape
- Indelible marker/Drum labels
- Surge Block
- Development pump and hoses OR bailers and line
- Several 5-gallon buckets with 1 gallon increments noted
- 55-gallon drums or other water storage facility
- Well Development Forms

5. Procedure

After completion of monitoring well installation, and no sooner than 48 hours following emplacement of the well seals, the well shall be developed as described below. Prior to insertion in any well, all equipment will either be decontaminated or will be deemed clean, or previously unused, by the manufacturer.

Open all monitoring wells at the site and allow to equilibrate approximately 15 minutes. Denote time and visual observations regarding well access, condition, security, etc. in logbook.

- Obtain initial depth to groundwater level readings from the point of survey mark, or from the North side of the top of the PVC casing, if not point of survey mark is present. Readings will be measured to the nearest 0.01 foot. Denote time and readings in logbook and on forms provided.
- Obtain depth to casing bottom for each well. Readings will be measured to the nearest 0.01 foot. Denote readings in logbook, and compare with boring log information.
- Calculate the volume of standing water in each monitoring well. Denote the volume calculated for each well in logbook and/or on forms provided.
- Alternate surging/swabbing of the screened interval and purging of the water:
 - Surging/Swabbing: Using either a surge block, the purge pump, or a heavy bailer, swab the screened portion of the well by lowering the surge equipment to the bottom of the well, rapidly raising and lowering the equipment in 2-foot intervals in a plunger-like fashion. This should force water in and out of the screened interval. Repeat the surge/swab at least 10 times at each 2-foot interval. Then swab the next two-foot screened interval. Follow each round of surging by purging.
 - Purging: Following each round of surging of the screened interval, the well shall be purged of water. Be sure to lower the bailer to the bottom of the well in order to "grab" the silts and clays which have settled to the bottom of the well. If a well has a large portion of fines, then the purging may be performed only using a bailer, since silts and clays can cause malfunction in the pumps.
- Please note, to develop the entire screened interval, water must be present over the entire length of screen. In wells with little water or with very poor recharge, distilled water may be added to the well to ensure adequate development of the well. If water is added, the volume of water added must be documented, and the water being used should be sampled for the presence of contaminants.
- Continue the process until the entire screened interval has been adequately swabbed and purge water is relatively clear of fine material.
- Contain all purge water in the drums or other containers provided. Denote the
 date, time and origin of the water on the containers. Include calculation of the
 volume of water removed from each well and observations of the presence of
 sediments and color/odor of water, etc., in the logbook and on the forms provided.
- Obtain final depth to groundwater level readings from the point of survey mark, or from the North side of the top of the PVC casing, if not point of survey mark is present. Readings will be measured to the nearest 0.01 foot. Denote time and readings in logbook and on forms provided.
- Conduct final decontamination procedures of any field equipment that is not disposable.
- Close and secure each well upon completion of field activities. Ensure that all water storage containers are closed and secured and that the site is clean.

PROJ. NAME: BLFP		PROJECT NO.: 00142803.11400	Sheet 1 of 1				
METHOD OF DRILL: HAND A	AUGER	LOCATION: SOUTH OF DIP TANK BUILDING					
SAMPLER: DIRECT PUSH	OD: ID:	LOGGED BY: CE	BORING #: B2-14				
BORING DIAMETER: 3.0"		DATE STARTED: 04/25/06	TIME: 10:30				
DRILLING CO.:		DATE COMPLETED: 04/25/06	TIME: 3:20				
C57 LIC. #:		TOTAL DEPTH OF BORING: 5,75 f					
DRILLER: COLLEEN		DEPTH TO GROUNDWATER: 5.56 ft	t_				
HAMMER WGT.: Ibs.	HAMMER DROP: inches	SURFACE CONDITIONS: FILL					
		* *************************************					

	ОЕРТН	GRAPHIC SYMBOL RECOVERY	BLOWS	SAMPLE NO.	USCS	SOIL DESCRIPTION	COLOR	MOISTURE	CONSISTENCY	PID (ppm)	WELL CONSTR.	WELL DESCRIPTION
	-	d		-		COBBLEY FILL MATERIAL					MIN	
	1-				GM		5Y 3/2	DRY	LOOSE	0		
	2 -	5/9				COBBLEY FILL MATERIAL	10YR 3/1	DRY	LOOS€	0		
	3-						10YR 3/4	MOIST	LOOSE	0		
	4-				GC	LARGE COBBLE UP	7.5YR 4/4	MOIST	M. DENSE	0		
	5—	5/9	Ì			TO 5"	IOYR 4/6		***************************************			
	Ĭ	X		B2-14-5			IOYR 4/6	MOIST	DENSE	0		GROUNDWATER @
'	E	-/ A1 X	II	B2-14-5.75				WET	DENSE	0		▼ 5.56'

PROJ. NAME: BLFP		PROJECT NO.: 00142803.11400	Sheet 1 of 1				
METHOD OF DRILL: HAND A	AUGER	LOCATION: SOUTH OF DIP TANK I					
SAMPLER: DIRECT PUSH	OD: ID:	LOGGED BY: CE	BORING #: B2-15				
BORING DIAMETER: 3.0"		DATE STARTED: 04/25/06	TIME: 3:30				
DRILLING CO.:		DATE COMPLETED: 04/26/06	TIME: 10:30				
C57 LIC. #:	***************************************	TOTAL DEPTH OF BORING: 5.63 f	···				
DRILLER: COLLEEN		DEPTH TO GROUNDWATER: 5.5 ft.					
HAMMER WGT.: Ibs.	HAMMER DROP: inches	SURFACE CONDITIONS: FILL					

DEPTH GRAPHIC SYMBOL	RECOVERY BLOWS	SAMPLE NO.	USCS SYMBOL	SOIL DESCRIPTION	COLOR	MOISTURE	CONSISTENCY	PID (ppm)	WELL CONSTR.	WELL DESCRIPTION
		·	GM	COBBLEY FILL MATERIAL	5Y 3/2	ORY	LOOSE	0		
3-8				COBBLEY FILL MATERIAL	10YR 3/I	DRY	LOOSE	0		
4-89			GC	LARGE COBBLE UP	7.5YR 4/4	MOIST MOIST	LOOSE M. DENSE	0		
5-0-0	X	82-15-5		10 5	IOYR 4/6	MOIST WET	DENSE DENSE	0		GROUNDWATER @ 5.5"

PROJ. NAME: BLFP		PROJECT NO.: 00142803.11400	Sheet 1 of 1			
METHOD OF DRILL: HOLLO	W STEM AUGER	LOCATION: SOUTH OF DIP TANK				
SAMPLER: SPLIT SPOON	OD: 2.75 ID: 2.0	LOGGED BY: CE	BORING #: B2-16b			
BORING DIAMETER: 8.0"		DATE STARTED: 05/15/06	TIME: 5:40			
DRILLING CO.: MITCHELL I	ENV. DRILLING CORP.	DATE COMPLETED: 05/15/06	TIME: 6:15			
C57 LIC. #: 672617	·	TOTAL DEPTH OF BORING: 6.50 f	· · · · · · · · · · · · · · · · · · ·			
DRILLER: EDDY MITCHELL		DEPTH TO GROUNDWATER: 5.9 ft.				
HAMMER WGT.: 140 lbs.	HAMMER DROP: 30 inches	SURFACE CONDITIONS: FILL				

DEPTH GRAPHIC SYMBOL RECOVERY	S SAMPLE NO.	USCS	SOIL DESCRIPTION	COLOR	MOISTURE	CONSISTENCY	PID (ppm)	WELL DESCRIPTION
1-0-0-0		GM	GRAVELLY FILL	10YR 5/8	DRY	LOOSE		
3-2-2-3	3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		GRAVELLY SAND SILT	IOYR 3/I IOYR 3/4	DRY MOIST	LOOSE		
4-86		GC	CLAYEY GRAVEL	7.5YR 4/4	MOIST	M. DENSE		
5-0 x	B2-16-5b	***************************************	CLAYEY GRAVEL	10YR 4/6	MOIST	DENSE		▼ GROUNDWATER @ 5.9'
1 <u>RX</u>	B2-16-6.5b		CLAYEY GRAVEL W/LARGE COBBLES /	10YR 4/6	WET	DENSE		

PROJ. NAME: BLFP	· · · · · · · · · · · · · · · · · · ·	PROJECT NO.: 00142803.11400	Sheet 1 of 1					
METHOD OF DRILL: HOLLO	W STEM AUGER	LOCATION: SOUTH OF DIP TANK						
SAMPLER: SPLIT SPOON	OD: 2.75 ID: 2.5							
BORING DIAMETER: 8.0"		DATE STARTED: 05/15/06	TIME: 4:45					
DRILLING CO.: MITCHELL	ENV. DRILLING CORP.	DATE COMPLETED: 05/15/06	TIME: 5:30					
C57 LIC. #: 672617		TOTAL DEPTH OF BORING: 6.50 ft.						
DRILLER: EDDY MITCHELL		DEPTH TO GROUNDWATER: 6.0 ft.						
HAMMER WGT.: 140 lbs.	HAMMER DROP: 30 inches	SURFACE CONDITIONS: FILL						

ОЕРТН	GRAPHIC SYMBOL RECOVERY	BLOWS	SAMPLE NO.	USCS SYMBOL	SOIL DESCRIPTION	COLOR	MOISTURE	CONSISTENCY	PID (ppm)	WELL CONSTR,	WELL DESCRIPTION
1-	0 0 0 0 8 0 0 0	777		GM	GRAVELLY FILL	10YR 5/8	DRY	LOOSE			
2 - 3	80		7777		GRAVELLY SAND SILT	10YR 3/1	DRY MOIST	LOOSE LOOSE			
4-		***************************************		GC	CLAYEY GRAVEL	7.5YR 4/4	MOIST	M. DENSE			
5-	X X	1	B2-17-5b		CLAYEY GRAVEL	IOYR 4/6	MOIST	DENSE			GROUNDWATER @ 6.0'
6 <u>-</u>]			B2-17-6.5b		CLAYEY GRAVEL W/LARGE COBBLES	10YR 4/6	WET	DENSE			*

NSTALLATION	PROJECT NO.: 00142803.204	Sheet 1 of 1			
W STEM AUGER	LOCATION: N OF DIP TANK BLDG	10001			
OD: 2.75" ID: 2.5"	LOGGED BY: CE	BORING #: MW-15			
	DATE STARTED: 05/17/06	TIME: 2:50 PM			
ENV. DRILLING CORP.	DATE COMPLETED: 05/17/06	TIME: 4:15 PM			
	TOTAL DEPTH OF BORING: 20.0 ft.				
	DEPTH TO GROUNDWATER: 11.0 ft.	The state of the s			
HAMMER DROP: 30 inches	SURFACE CONDITIONS: CONCRETE				
	ENV. DRILLING CORP.	W STEM AUGER OD: 2.75" ID: 2.5" LOGGED BY: CE DATE STARTED: 05/17/06 ENV. DRILLING CORP. DATE COMPLETED: 05/17/06 TOTAL DEPTH OF BORING: 20.0 ft DEPTH TO GROUNDWATER: 11.0 ft.			

DEPTH	GRAPHIC	RECOVERY	BLOWS	SAMPLE NO.	USCS	SOIL DESCRIPTION	COLOR	MOISTURE	CONSISTENCY	PID (ppm)	WELL CONSTR.	WELL DESCRIPTION
1-	× × ×			· ·		1.5' CONCRETE						FLUSH MOUNTED TRAFFIC BOX W/ LOCKING WELL CAP
-	5 V 9 9					3" OF 5" GRAVELS	- Control					
3-					CL		IOYR 3/4	MOIST	STIFF	in the second		CEMENT GROUT 0.0'-1.0'
- 4	9 8						2.5Y 4/3	DRY	LOOSE		00100	2" BLANK PVC WELL CASING 0.0'-3.0'
- 5-	6/9	×	26 28	MW-15-5	6C	O' IV II Oor					00000	BENTONITE SEAL 1.0'-2.0'
6-		^	40	MM 10-3	***************************************	CLAY W/ 20% COARSE GRAVELS & 10% SAND	2.5Y 5/4	DAMP	V. STIFF			
- 7-					CL				William		00000	
- 8-									7		10000	
9-					GM	80% COARSE GRAVEL,COARSE SAND & FINES	5Y 4/2	DAMP	LOOSE			
10-		х	14 19	MW-15-10		SANDY CLAY W/ 5% FINE GRAVEL, SLIGHT ODOR	1086 5/I, 50% 5G 4/I	DAMP	V. STIFF		00000	
			37		CL	arioni obok			WHATALANA		Complete 1	GROUNDWATER @ 11.0°
12-							TV AN AL		THA AMA		00000	bgs
13		Tawat Li				CLAY W/ 10% SILT, 10% FINE SAND	5Y 4/4	DAMP	V. STIFF		00000	
14-			•		СН	ACCOUNTS OF THE PARTY OF THE PA	A PARACE STATE OF THE STATE OF				0.0.0	
15-		х	12 14 18	MW-15-15		CLAY W/ 10% SILT, 10% FINE SAND	2.5Y 5/4	DAMP	V. STIFF			
16-			10			CLAYEY GRAVEL	5Y 4/2	WET	LOOSE		0.0000	
17—					- Annual Control of the Control of t			**************************************				
18	0 9	x	21		GM	DIAVEV CENTALES			NAPAH Winterlandscore			SAND 2.0'-20.0'
19	00	x	29	MW-15-20		CLAYEY GRAVEL, FUEL ODOR	5 BG 4/1	WET	STIFF			2" SLOT PVC WELL SCREEN 3.0"-20.0"
l ₂₀ _1	Ш	^_	70	### 10 ZU	SM	COARSE SAND W/ FINES	2.5Y 5/6	WET	LOOSE			JUNESIN 3.0 -20.0

PROJECT NO.: 00142803,204	Sheet 1 of 1		
	Ollegt 1011		
LOGGED BY: CE	BORING #: MW-16		
DATE STARTED: 05/17/06	TIME: 10:45 AM		
	TIME: 1:56 PM		
\$ ************************************			
	PROJECT NO.: 00142803.204 LOCATION: S OF DIP TANK BLDG LOGGED BY: CE DATE STARTED: 05/17/06 DATE COMPLETED: 05/17/06 TOTAL DEPTH OF BORING: 20.0 ft. DEPTH TO GROUNDWATER: 10.5 ft. SURFACE CONDITIONS: SOIL/FILL		

GRAPHIC		BLOWS	SAMPLE NO.	USCS	SOIL DESCRIPTION	COLOR	MOISTURE	CONSISTENCY	MELL CONSTR.	WELL DESCRIPTION
			Total Address of the Control of the	GM	GRAVELLY FILL	IOYR 5/8			30	FLUSH MOUNTED TRAFFIC BOX W/ LOCKING WELL CAP
					GRAVEL, SAND, SILT CLAYEY GRAVEL	10YR 3/1 10YR 3/4	MOIST	STIFF	4	CEMENT GROUT 0.0'-1.0'
			- Constitution	GC	CLAYEY GRAVEL	7.5Y 4/4	ORY	L005E		2" BLANK PVC WELL CASING 0.0'-3.0'
	х	***************************************	MW-16-5)		10YR 4/6	. MOIST	DENSE		BENTONITE SEAL 1.0'-2.0'
					CLAYEY GRAVEL W/LARGE COBBLES	10YR 4/6	WET	DENSE		
				GM	50% COARSE GRAVEL, 20% FINE GRAVEL, 20% FINES, 10% SAND 75% COARSE	10YR 5/6 70YR 5/6	ORY	LOOSE	100000000000000000000000000000000000000	
	X	12 30 39	MW-16-10	CL	GRAY., 5% SAND, 10% FINE GRAY., 10% FINES GRAVELLY CLAY, 15% FINE GRAVEL, 40% CLAY, 20% SILT, 25% FINE SAND	IOYR 5/6	WET	V. STIFF	0101000	GROUNDWATER @ 10.5' bgs
	***************************************	29		SP	5% FINE GRAVEL, 10% FINES	2.5Y 4/4	WE]	V. SOFT	000000000	
	x	50	MW-16-15		FINE GRAVEL W/ Clay & Sand	10YR 4/6	WET V	. STIFF		
	****	VIIII	Account.	GM	CLAYEY COARSE GRAVEL UP TO 3"		WET	STIFF		
d e	ı	7			CLAYEY GRAVEL	2.5Y 5/6				2.5-3.0 MONTEREY SAND 2.0'-20.0'
M.,	ĺ	26 21	MW-16-20	CL	GRAVELLY CLAY, FINE GRAVEL	2.5Y 5/4	WET V	. STIFF		2" SLOT PVC WELL SCREEN 3.0"-20.0"



By <u>CP</u> Date 1/25/0 Subject <u>ProRivor</u> 1					of 42803.11400
ARRIVED ONSI- paced/mea	~	ple location	e B2-15	° 62-14	• поператитель
	Dif	rank Build	ding		36' between borings

opened well MW14 for depth to GW 8.15' bys from TOC de con equipment

Started B2-14 10:30 am
gravelly fill w/ 2" cobbles to 2.5 bas Sample B2-14-5 was collected from at 1:50 groundwater encountered at 5'9" bgs

Sample B2-14-5.75 callected @ 2:30 total depth of boxing = 5.75' decord equipment start 82-15 @ 3:30

stopped B2-15 @ 5:30 cleaned site-backed truck left site @ 5:50.



CC What lot	
By CG Date 4/26/06 Client MFP Shee	ot No. 2 of Z
Outer BIED - Dan on head Hab	vo. 06(42803.1140

prepared to collected water samples from B2-17 & B2-15

Samples are v. turbid - Not enough water to purge clean.

collected groundwater

collected sample B2-14 & 4:00

Labeled & put samples in weeker cooler.

collected gw sample 62-15 @ 5:10

(abeled & put samples in cooler.

cleaned site & packed truck of sampling tools.

Returned to office & unloaded truck supplies from truck.

4/27/06

9:00 dropped samples off at NCL.



- 16 Hollor		
By Company Date 11 20/06 Client_	NFP	2
0		Sheet No of
Subject BLFP - boring installation	\sim	
		Job No. 00142803, 11400

arrived ousite 8:30

cont. B2-15
@ 5' bas got reflect refusal
3" cobble in bottom of boring. could not get
out or around it.

9:00 stepped out (to the east) 2' start B2-15

sample B1-15-5 collected @ 10:15 gw encountered @ 5:8" bgs

finished hand angering B2-15 @ 10:30 total depth = 80 5'10"

deson equipment Paul Jones onsite us

Started 82-16 @ 10:40 began boring of post hole diggers

Sample B2-16-5 collected @ 11:51

Refusal @ 5'6" - stopped diaging large whole layer

de con equipment

Started # B2-17 @ 12:40
began boring w/ post held diggers

Sumple

62-18-5 collected @ 1:25

Refusal @ 5'4" - Stopped boring large cobble layer

dean equipment for packing



By C4 Date 5/15/06 Client 1	
By <u>CC</u> Date 5/15/06 Client	
Onoth	Sheet No. of
12	0//00/1400/
Subject Boring installation	\$ f .
onniect and off off the to be	03147902 (1400
<i>3</i>	Job No03142803. [1400
	000 140.

11:50 Aprived insite Prep to install borings

1:30 Decided to leave site - left another message

4.00 amived onsite after talking to Eddy.

4:30 Driller amved onsite. checks boring location/access and discuss wells.

Eddy back until Rig behind building.

4:45 Begins to drill.

5:01 Sample B2-17-5b is collected.
5-5/12-then hits rock.

5:07 62-17-656 is collected.

groundwater encountered

5:20 132-17 collected - groundwater sample.

Driller puts bentonite pelleto down hale 12/2 above groundwater - then fills hale of drill althings.

5:45 Sample B2-16-66 coile cted 5:59 Sample B2-16-656 6:05 Groundwater Sample B2-16 Driller puts bentonete down borning then fills borning w/ drill cuttings

6:20 Driller Gaves site

Did NOT Describe samples by I described meriod to I land

By Ch Date 5/17/06 Client BLFP	Sheet No. 2 of 2
Subject well installation	Job No. 00142803 1140C

Seq. - finished cutting concrete. 1.5'

2:50 Started MW-15

MW-15-6 @ 3:06

MW-15-10 B 3:14

MW-15-15 @ 7:20

MW-15-20 @ 3:30

5/2 bags of sand.

Ringate Drum Sample - @ 4.30

Driller left site 5:15

633 Third Street, Eureka, CA 95501-0417 (707) 443-8326 / FAX (707) 444-8330

By Ch Date 5/17/06 Client BUP		07) 443-8326 / FAX (707) 444-8330
Subject well installation		Sheet No of
102-16-56 ND B2-16-56 ND B2-16-56 ND	egin. ■ National State of the	Job No. <u>00142803-114</u>
Samples Samples FL. 4.5"-5.5" Left split spo Next will be 9.5"-11"		
Sample MW-16-5	- 11:16	
Sample MW-16-10 GW	11.20	
	dwater @ 10.5'	wet at bottom of spile
Sample MW-16-15 29 5" > sp	11:29 lif spoon sample	Dry at top
Sample MW-16-20	(17.40	
17' screened 3' Not screened Monterey sand 21 12' of Bentonite	12 4'[2/bags	





May 11, 2006

WK-EUREKA

Winzler and Kelly 633 Third Street Eureka, CA 95501

Attn: Colleen Ellis

RE: 0014280311400

Order No.: 0604526 Invoice No.: 58059 PO No.:

ELAP No. 1247-Expires July 2006

SAMPLE IDENTIFICATION

Fraction	Client Sample Description	n ·
01A	B2-14	
01C	B2-14	
02A	B2-15	
02C	B2-15	
03A	, B2-14-5	
03B	B2-14-5	
. 04A	B2-14-5.75	
04B	B2-14-5.75	
05A	B2-15-5	
05B	B2-15-5	
06A	B2-16-5	100
06B	B2-16-5	
07A	B2-17-5	
07B	B2-17-5	2.2
	the second secon	

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

All solid results are expressed on a wetweight basis unless otherwise noted.

REPORT CERTIFIED BY

Laboratory Supervisor(s)

QA Unit

Jesse G. Chaney, Jr. Laboratory Director

North Coast Laboratories, Ltd.

CLIENT:

Winzler and Kelly

Project:

0014280311400

Lab Order:

0604526

Date: 11-May-06

CASE NARRATIVE

All samples submitted for a silica gel cleanup were initially analyzed for diesel/motor oil. The samples showing no detectable levels of the analytes were not subjected to the cleanup procedure.

TPH as Diesel/Motor Oil w/ Silica Gel Cleanup:

The relative percent difference (RPD) for the laboratory control samples was above the acceptance limit for diesel. This indicates that the results could be variable. Since there were no detectable levels of analyte in the samples, the data were accepted.

11-May-06

WorkOrder: 0604526

ANALYTICAL REPORT

Client Sample ID: B2-14

Received: 4/27/06

Collected: 4/26/06 16:00

Lab ID: 0604526-01A

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

<u>Parameter</u>	Result	Limit	<u>Units</u>	<u>DF</u>	Extracted	Analyzed
MTBE	ND	3.0	µg/L	1.0		5/3/06
Benzene	ND	0.50	μg/L	1,0		5/3/06
Toluene	ND	0.50	μg/L	1.0		5/3/06
Ethylbenzene	ND	0.50	μg/L	1.0		5/3/06
m,p-Xylene	ND	0.50	μg/L	1.0		5/3/06
o-Xylene	ND	0.50	μg/L	1.0		5/3/06
Surrogate: Cis-1,2-Dichloroethylene	91.2	85-115	% Rec	1.0		5/3/06

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	50	μg/L	1.0		5/3/06

Client Sample ID: B2-14

Received: 4/27/06

Collected: 4/26/06 16:00

Lab ID: 0604526-01C

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	<u>DF</u>	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	μg/L	1.0	5/5/06	5/5/06
TPHC Motor Oil	ND	170	μg/L	1.0	5/5/06	5/5/06

Client Sample ID: B2-15

Lab ID: 0604526-02A

Received: 4/27/06

Collected: 4/26/06 17:10

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

<u>Parameter</u>		Result	Limit	Units	$\overline{\mathbf{DF}}$	Extracted	Analyzed
MTBE		ND	3.0	μg/L	1.0		5/3/06
Benzene	and the second of the second of	ND	0.50	µg/L	1.0		5/3/06
Toluene		ND	0.50	µg/L	1.0		5/3/06
Ethylbenzene		ND	0.50	μg/L	1.0		5/3/06
m,p-Xylene		ND	0.50	μg/L	1.0		5/3/06
o-Xylene		ND	0.50	μg/L	1.0		5/3/06
Surrogate: C	Sis-1,2-Dichloroethylene	90.6	85-115	% Rec	1.0		5/3/06

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	Limit	<u>Units</u>	\mathbf{DF}	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	50	μg/L	1.0		5/3/06

11-May-06

WorkOrder: 0604526

ANALYTICAL REPORT

Client Sample ID: B2-15

Lab ID: 0604526-02C

Received: 4/27/06

Collected: 4/26/06 17:10

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	$\underline{\mathbf{DF}}$	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	μg/L	1.0	5/5/06	5/5/06
TPHC Motor Oil	ND	170	μg/L	1.0	5/5/06	5/5/06

Client Sample ID: B2-14-5

Received: 4/27/06

Collected: 4/25/06 13:50

Lab ID: 0604526-03A

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	<u>DF</u>	Extracted	Analyzed
MTBE	ND	0.050	μg/g	1.0	5/3/06	5/3/06
Benzene	ND	0.0050	µg/g	1.0	5/3/06	5/3/06
Toluene	ND	0.0050	µg/g	1.0	5/3/06	5/3/06
Ethylbenzene	ND	0.0050	µg/g	1.0	5/3/06	5/3/06
m,p-Xylene	ND	0.0050	μg/g	1.0	5/3/06	5/3/06
o-Xylene	ND	0.0050	µg/g	1.0	5/3/06	5/3/06
Surrogate: Cis-1,2-Dichloroethylene	96.2	71.8-135	% Rec	1.0	5/3/06	5/3/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	<u>DF</u>	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	µg/g	1.0	5/3/06	5/3/06

Client Sample ID: B2-14-5

Lab ID: 0604526-03B

Received: 4/27/06

Collected: 4/25/06 13:50

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup Reference: EPA 3550/3630/GCFID(LUFT)/8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	<u>DF</u>	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	1.0	μg/g	1.0	5/4/06	5/10/06
TPHC Motor Oil	10	10	μg/g	1.0	5/4/06	5/10/06

11-May-06

WorkOrder: 0604526

ANALYTICAL REPORT

Client Sample ID: B2-14-5.75 Lab ID: 0604526-04A

Received: 4/27/06

Collected: 4/25/06 14:30

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

<u>Parameter</u>	Result	Limit	Units	<u>DF</u>	Extracted	Analvzed
MTBE	ND	0.050	μg/g	1.0	5/3/06	5/3/06
Benzene	ND	0.0050	µg/g	1.0	5/3/06	5/3/06
Toluene	ND	0.0050	µg/g	1.0	5/3/06	5/3/06
Ethylbenzene	ND	0.0050	μg/g	1.0	5/3/06	5/3/06
m,p-Xylene	ND	0.0050	μg/g	1.0	5/3/06	5/3/06
o-Xylene	ND	0.0050	μg/g	1.0	5/3/06	5/3/06
Surrogate: Cis-1,2-Dichloroethylene	97.1	71.8-135	% Rec	1.0	5/3/06	5/3/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	µg/g	1.0	5/3/06	5/3/06

Client Sample ID: B2-14-5.75

Received: 4/27/06

Collected: 4/25/06 14:30

Lab ID: 0604526-04B

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup Reference: EPA 3550/3630/GCFID(LUFT)/8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	$\overline{\mathbf{DF}}$	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	1.0	μg/g	1.0	5/4/06	5/10/06
TPHC Motor Oil	13	.10	μg/g	1.0	5/4/06	5/10/06

Client Sample ID: B2-15-5

Received: 4/27/06

Collected: 4/26/06 10:15

Lab ID: 0604526-05A

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

<u>Parameter</u>		Result	<u>Limit</u>	<u>Units</u>	DF	Extracted	Analyzed
MTBE		ND	0.050	μg/g	1.0	5/3/06	5/3/06
Benzene		ND	0.0050	μg/g	1.0	5/3/06	5/3/06
Toluene		ND	0.0050	μg/g	1.0	5/3/06	5/3/06
Ethylbenzene		ND	0.0050	μg/g	1.0	5/3/06	5/3/06
m,p-Xylene		ND	0.0050	μg/g	1.0	5/3/06	5/3/06
o-Xylene	e jour de jour jarour	ND	0.0050	.µg/g	1.0	5/3/06	5/3/06
Surrogate: Cl	is-1,2-Dichloroethylene	98.0	71.8-135	% Rec	1.0	5/3/06	5/3/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	$\overline{\mathbf{DF}}$	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	μg/g	1.0	5/3/06	5/3/06

11-May-06

WorkOrder: 0604526

ANALYTICAL REPORT

Client Sample ID: B2-15-5

Received: 4/27/06

Collected: 4/26/06 10:15

Lab ID: 0604526-05B

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	1.0	µg/g	1.0	5/2/06	5/3/06
TPHC Motor Oil	ND	10	μg/g	1.0	5/2/06	5/3/06

Client Sample ID: B2-16-5

Received: 4/27/06

Collected: 4/26/06 11:51

Lab ID: 0604526-06A

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

<u>Parameter</u>	Result	Limit	<u>Units</u>	DF	Extracted	Analyzed
MTBE	ND	0.050	μg/g	1.0	5/3/06	5/3/06
Benzene	ND	0.0050	µg/g	1.0	5/3/06	5/3/06
Toluene	ND	0.0050	μg/g	1.0	5/3/06	5/3/06
Ethylbenzene	ND	0.0050	μg/g	1.0	5/3/06	5/3/06
m,p-Xylene	ND	0.0050	µg/g	1.0	5/3/06	5/3/06
o-Xylene	ND	0.0050	μg/g	1.0	5/3/06	5/3/06
Surrogate: Cis-1,2-Dichloroethylene	97.2	71.8-135	% Rec	1.0	5/3/06	5/3/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	Limit	<u>Units</u>	$\overline{\mathrm{DF}}$	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	hā\â	1.0	5/3/06	5/3/06

Client Sample ID: B2-16-5

Lab ID: 0604526-06B

Received: 4/27/06

Collected: 4/26/06 11:51

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	1.0	μg/g	1.0	5/2/06	5/3/06
TPHC Motor Oil	ND	10	μg/g	1.0	5/2/06	5/3/06

11-May-06

WorkOrder: 0604526

ANALYTICAL REPORT

Received: 4/27/06

Collected: 4/26/06 13:25

Lab ID: 0604526-07A

Client Sample ID: B2-17-5

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

<u>Parameter</u>	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	0.050	μg/g	1.0	5/3/06	5/3/06
Benzene	ND	0.0050	µg/g	1.0	5/3/06	5/3/06
Toluene	ND	0.0050	μg/g	1.0	5/3/06	5/3/06
Ethylbenzene	ND	0.0050	µg/g	1.0	5/3/06	5/3/06
m,p-Xylene	ND	0.0050	μg/g	1.0	5/3/06	5/3/06
o-Xylene	ND	0.0050	μg/g	1.0	5/3/06	5/3/06
Surrogate: Cis-1,2-Dichloroethylene	96.8	71.8-135	% Rec	1.0	5/3/06	5/3/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	Limit	Units	$\overline{\mathbf{DF}}$	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	μg/g	1.0	5/3/06	5/3/06

Client Sample ID: B2-17-5

Received: 4/27/06

Collected: 4/26/06 13:25

Lab ID: 0604526-07B

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	1.0	µg/g	1.0	5/2/06	5/3/06
TPHC Motor Oil	ND	10	µg/g	1.0	5/2/06	5/3/06

North Coast Laboratories, Ltd.

Date: 11-May-06

CLIENT: Winzler and Kelly Work Order: 0604526

Project: 0014280311400

OC SUMMARY REPORT

Laboratory Control Spike

Sample ID I Co 15630	PATANCE TO A FOOT				ARABAN SANAKAN MANDAKAN MANDAK	**************************************	PROMONON THE COLUMN TO THE COL	SOUTH THE PROPERTY OF THE PROP	THE STREET WATER COMMUNICATION		The Control of the Co
	10000	Tost Code. DIAES	O Ard	Onno. pgg		Alldiyor	יטוש טומי	Allalysis Dale 3/3/00 4:21:0/ FM	rrep D	Prep Date 5/3/06	
Client ID:		Run ID:	ORGC8_060503B	503B		SeqNo:	590639	9			
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	imit HighLimit RPD Ref Val	%RPD	%RPD RPDLimit	Qual
MTBE	0.4051	0.050	0.400	0	101%	75	124	0			
Benzene	0.05172	0.0050	0.0500	0	103%	80	128	0			
Toluene	0.05304	0.0050	0.0500	0	106%	85	126	0			
Ethylbenzene	0.05209	0.0050	0.0500	0	104%	80	126	0			
m,p-Xylene	0.09863	0.0050	0.100	0	98.6%	84	130	0			
o-Xylene	0.04980	0.0050	0.0500	0	99.6%	84	125	0			
Cis-1,2-Dichloroethylene	1.13	0.10	1.00	0	113%	72	135	0			
Sample ID LCSD-15639	Batch ID: 15639	Test Code: BTXES	BTXES	Units: µg/g		Analysis	Date 5/3/0	ılysis Date 5/3/06 4:56:40 PM	Prep Da	Prep Date 5/3/06	
Client ID:		Run ID:	ORGC8_060503B	503B		SeqNo:	590640	0			
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	0.3956	0.050	0.400	0	98.9%	75	124	0.405	2.37%	15	
Benzene	0.05123	0.0050	0.0500	0	102%	80	128	0.0517	0.939%	15	
Toluene	0.05248	0.0050	0.0500	0	105%	85	126	0.0530	1.05%	15	
Ethylbenzene	0.05232	0.0050	0.0500	0	105%	80	126	0.0521	0.442%	15	
m,p-Xylene	0.09826	0.0050	0.100	0	98.3%	84	130	0,0986	0.371%	. 1 3	
o-Xylene	0.05029	0.0050	0.0500	0	.101%	84	125	0.0498	0.979%	15	
Cis-1,2-Dichloroethylene	1.12	0.10	1.00	0	112%	72	135	1.13	1.25%	5	

Work Order: CLIENT: Project: 0604526 0014280311400 Winzler and Kelly QC SUMMARY REPORT Method Blank

WANTED THE THE TAX OF					The state of the second	COCCES-1222-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	- processors of the second
Sample ID WB-15639	Batch ID: 15639	Test Code: TPHCGS	Units: µg/g	An	Analysis Date 5/3/06 8:28:05 PM	Prep Date 5/3/06	
Client ID:		Run ID: ORGC8_060503A	503A	Se	SeqNo: 590574		
Analyte	Result	Limit SPK value	SPK Ref Val	% Rec LowL	LowLimit HighLimit RPD Ref Val	%RPD RPDLimit	Qual
TPHC Gas (C6-C14)	ND	1.0					
Sample ID MB-5/2/06	Batch ID: R41083	Test Code: TPHCGW	Units: µg/L	An	Analysis Date 5/2/06 8:59:08 PM	Prep Date	
Client ID:		Run ID: ORGC8_060501B	01B	Se	SeqNo: 590000		
Analyte	Result	Limit SPK value	SPK Ref Val	% Rec LowL	LowLimit HighLimit RPD Ref Val	%RPD RPDLimit	Qual
TPHC Gas (C6-C14)	ND	50		To the second se			
Sample ID MB-15626	Batch ID: 15626	Test Code: TPHDMS	Units: µg/g	An	Analysis Date 5/3/06 12:31:14 AM	Prep Date 5/2/06	
Client ID:		Run ID: ORGC7_060502A	02A	Se	SeqNo: 590025		
Analyte	Result	Limit SPK value	SPK value SPK Ref Val	% Rec LowL	LowLimit HighLimit RPD Ref Val	%RPD RPDLimit	Qual
TPHC Diesel (C12-C22) TPHC Motor Oil	0,5726 ND	1.0					د
Sample ID MB-15649	Batch ID: 15649	de:	Units: µg/L	An	Analysis Date 5/5/06 8:39:47 PM	Prep Date 5/5/06	
Client ID:		Run ID: ORGC7_060505B	05B	Se	SeqNo: 590854		
Analyte	Result	Limit SPK value	SPK value SPK Ref Val	% Rec LowLimit	imit HighLimit RPD Ref Val	%RPD RPDLimit	Qual
TPHC Diesel (C12-C22) TPHC Motor Oil	ND 54.94	50	The state of the s	Towns and Associated States and Associated S	**************************************		Printer Annie Anni

QC SUMMARY REPORT

Project: 0014280311400 Laboratory Control Spike CLIENT:

Work Order:

0604526

Winzler and Kelly

CONTRACTOR OF THE PROPERTY OF	STATES OF THE ST	THE STATE OF THE PROPERTY OF THE PARTY OF TH	TO TO THE PARTY OF	Pro-POSSON CATALOGICA CONTRACTOR		Mandarana			THE RECEIPTION OF THE PROPERTY		NAMES OF TAXABLE PARTY
Sample ID LCS-06263	Batch ID: R41084	Test Code: BTXEW	BTXEW	Units: µg/L		Analysis	Date 5/2/0	Analysis Date 5/2/06 4:52:24 PM	Prep Date	ate	
Client ID:		Run ID:	ORGC8_060501C	501C		SeqNo:	590009	9			
Analyte	Result	Limit	SPK value	SPK value SPK Ref Val	% Rec	LowLimit	HighLimit	HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	42.85	3.0	40.0	0	107%	85	115	0			OF STREET, SO STREET,
Benzene	4.968	0.50	5.00	. 0	99,4%	85	115	0			
Toluene	5.003	0.50	5.00		100%	85	115	0			
Ethylbenzene	5.002	0.50	5,00	0	100%	85	115	0			
m,p-Xylene	10.00	0.50	10.0	0	100%	85	115	0			
o-Xylene	4.918	0.50	5.00	0	98.4%	85	115	0			
Cis-1,2-Dichloroethylene	1.12	0.10	1.00	0	112%	85	115	0			
Sample ID LCSD-06263	Batch ID: R41084	Test Code: BTXEW	BTXEW	Units: µg/L		Analysis	Date	5/2/06 5:27:59 PM	Prep Date	ate	Market Services
Client ID:		Run ID:	ORGC8_060501C	501C		SeqNo:	590010	0			
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	42.77	3.0	40.0	0	107%	85	115	42.8	0.189%	15	1.0000 A A I I I I I I I I I I I I I I I I
Benzene	5.010	0.50	5.00	0	100%	85	115	4.97	0.840%	15	
Toluene	5.019	0.50	5.00	0	100%	85	115	5.00	0.331%	1 5	
Ethylbenzene	5.056	0.50	5.00	0	101%	85	115	5.00	1.06%	15	
m,p-Xylene	10.16	0.50	10.0	0	102%	85	115	10.0	1.58%	15	
o-Xylene	5.084	0.50	5.00		102%	85	115	4.92	3.32%	15	
Cis-1,2-Dichloroethylene	1.14	0.10	1.00		114%	85	115	1.12	1.77%	15	
Sample ID LCS-15643	Batch ID: 15643	Test Code:	SGTPDMS	Units: µg/g	THE THE PERSONNEL PROPERTY OF THE PERSONNEL	Analysis	Date 5/10/0	5/10/06 6:24:35 PM	Prep Da	Prep Date 5/4/06	THE PARTY OF THE P
Client ID:		Run ID:	ORGC5_060510B	10B		SeqNo:	591621	_			
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	4.507	1.0	10.0	0	45.1%	29		0	man.		
TPHC Motor Oil	10.15	10	20.0	0	50.8%	46	114	0	:		

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

CLIENT: Work Order: Winzler and Kelly

0014280311400

0604526

Project:

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

%RPD RPDLimit Qual Prep Date RPDLimit Qual	RPD Ref Val			//////////////////////////////////////			TO A CANADA DE COMPANION DE LA CANADA DEL CANADA DE LA CANADA DEL CANADA DE LA CANADA DEL CANADA DE LA CANADA DE LA CANADA DE LA CANADA DEL CANADA DE		
N 1	. •		LowLimit	% Rec	SPK Ref Val	SPK value	Limit	Result	Analyte
899	υ	589998	SeqNo:	-	901B	ORGC8_060501B	Run ID:		Client ID:
	7:14:11 PM	Analysis Date 5/2/06 7:14:11 PM	Analysis		Units: µg/L	TPHCGW	Test Code;	Batch ID: R41083	Sample ID LCSD-06264
	0	115	85	92.0%	0	500	50	460.2	TPHC Gas (C6-C14)
Prep Date	HighLimit RPD Ref Val		LowLimit	% Rec	SPK Ref Val	SPK value	Limit	Result	Analyte
Prep Date	7	589997	SeqNo:		301B	ORGC8_060501B	Run ID:		Client ID:
	Analysis Date 5/2/06 6:38:56 PM	Date 5/2/06	Analysis		Units: µg/L	TPHCGW	Test Code:	Batch ID: R41083	Sample ID LCS-06264
0.599% 15	10.5	128	102	105%	0	10.0	1.0	10.52	TPHC Gas (C6-C14)
%RPD RPDLimit Qual	LowLimit HighLimit RPD Ref Val	HighLimit	LowLimit	% Rec	SPK Ref Val	SPK value	Limit	Result	Analyte
	ω	590573	SeqNo:		503A	ORGC8_060503A	Run ID:		Client ID:
Prep Date 5/3/06	Analysis Date 5/3/06 6:42:50 PM	Date 5/3/06	Analysis		Units: µg/g	TPHCGS	Test Code:	Batch ID: 15639	Sample ID LCSD-15639-G
	0	128	102	105%	0	10.0	1.0	10.46	TPHC Gas (C6-C14)
%RPD RPDLimit Qual	LowLimit HighLimit RPD Ref Val	HighLimit	LowLimit	% Rec	SPK Ref Val	SPK value	Limit	Result	Analyte
	20	590572	SeqNo:		503A	ORGC8_060503A	Run ID:		Client ID:
Prep Date 5/3/06	Analysis Date 5/3/06 6:07:28 PM	Date 5/3/00	Analysis		.Units: µg/g	TPHCGS	Test Code:	Batch ID: 15639	Sample ID LCS-15639-G
19.1% 15 R 10.5% 15	4.51 10.2	1111	29 46	54.6% 56.4%	0	10.0 20.0	1.0 10	5.458 11.28	TPHC Diesel (C12-C22) TPHC Motor Oil
%RPD RPDLimit Qual	HighLimit RPD Ref Val	HighLimit	LowLimit	% Rec	SPK Ref Val	SPK value	Limit	Result	Analyte
	N	591622	SeqNo:		510B	ORGC5_060510B	Run ID:		Client ID:
Prep Date 5/4/06	Analysis Date 5/10/06 6:47:33 PM	Date 5/10/0	Analysis	POLIKISKA PARTITALIA (A.) AND	Units: µg/g	Test Code: SGTPDMS	Test Code:	Batch ID: 15643	Sample ID LCSD-15643

CLIENT: Work Order: 0604526 Winzler and Kelly QC SUMMARY REPORT

0014280311400

Laboratory Control Spike

Project:

S-168266 Batch ID: 156266 Test Code: TPHDMS Units: µg/g SeqNo: S2006 10:29:17 PM Prep Date 5/2706		15	12.7% 1.21%	409 940	124 139	72 71	72.1% 95.1%	0 0	500 1,000	50 170	360.3 951.2	TPHC Diesel (C12-C22) TPHC Motor Oil
Batch ID: 15626 Test Code: TPHDMS Units: µg/g Analysis Date 5/2/06 10:29:17 PM Prep Date 5/2/06	Qual	RPDLimit	%RPD	RPD Ref Val		LowLimit	% Rec	SPK Ref Val	SPK value	Limit	Result	Analyte
Batch ID: 15626 Test Code: TPHDMS Units: µg/g Analysis Date 5/2/06 10:29:17 PM Prep Date 5/2/06 SeqNo:	SOCIO COLLINOS	ate 5/5/06	Prep Da	6 5:56:07 PM 9	s Date 5/5/0 59084	Analysis SeqNo:		Units: µg/L 305B	TPHDMW ORGC7_0605	Test Code: Run ID:	Batch ID: 15649	Sample ID LCSD-15649 Client ID:
Batch ID: 15626 Test Code: TPHDMS Units: μg/g Analysis Date 5/2/06 10:29:17 PM Prep Date 5/2/06 2/106 Note 10:29:17 PM Prep Date 5/2/06 5/2/06 Note 10:29:17 PM Prep Date 5/2/06 <		THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PR		0 0	124 139	72 71	81.9% 94.0%	0	500 1,000	50 170	409,3 939.7	TPHC Diesel (C12-C22) TPHC Motor Oil
Batch ID: 15626 Test Code: TPHDMS Units: µg/g Analysis Date 5/2/06 10:29:17 PM Prep Date 5/2/06 Run ID: 60RGC7_060502A Run ID: 60RGC7_060502A SeqNo: 590022 SeqNo: 590022 SeqNo: 590022 %RPD Ref Val	Qual	RPDLimit	%RPD	RPD Ref Val	HighLimit	LowLimit	% Rec	SPK Ref Val	SPK value	Limit	Result	Analyte
Batch ID: 15626 Test Code: TPHDMS Units: μg/g Analysis Date 5/2/06 10:29:17 PM Prep Date 5/2/06 Run ID: ORGC7_060502A SeqNo: S		ate 5/5/06	Freb D	6 5:35:43 PM	29084 29087	SeqNo:		305B	ORGC7_060	Run ID:		
Batch ID: 15626 Test Code: TPHDMS Units: µg/g Analysis Date 5/2/06 10:29:17 PM Prep Date 5/2/06 Run ID: QRGC7_060502A SeqNo: SeqNo: 590022 Result Limit SPK value SPK Ref Val % Rec LowLimit HighLimit RPD Ref Val %RPD RPD Imit 8.954 1.0 10.0 0 89.5% 70 130 0 RPPD Ref Val Prep Date 5/2/06 8 Batch ID: 15626 Test Code: TPHDMS Units: µg/g Analysis Date 5/2/06 10:49:44 PM Prep Date 5/2/06 Prep Date 5/2/06 8 Batch ID: 15626 Test Code: TPHDMS Units: µg/g Analysis Date 5/2/06 10:49:44 PM Prep Date 5/2/06 8 Batch ID: 15626 Test Code: TPHDMS Units: µg/g Analysis Date 5/2/06 10:49:44 PM Prep Date 5/2/06 8 Batch ID: 15626 Prep Date 5/2/06 Prep Date 5/2/06 Prep Date 5/2/06 Prep Date 5/2/06 9 Result Prep Date 5/2/06 10 3 0 0 0 10 3 0 0 Prep Date 5/2/06 Prep Date 5/2/06	***************************************			O TOTA O TAR	o Dete elek	Application		inite with	TDHOMW	Test Code:	Batch ID: 15640	Sample ID LCS-15649
Batch ID: 15626 Test Code: TPHDMS Units: µg/g Analysis Date 5/2/06 10:29:17 PM Prep Date 5/2/06 5/2/06 Run ID: 400502A Run ID: 400502A SPK value 5/2/06 50:24 % Rec 5/2/06 10:29:17 PM Prep Date 5/2/06 5/2/06 \$ 590022 \$ 590022 \$ 70 \$ 130 \$ 0 \$ 70		15	0.445% 0.307%	8.95 20.7	130 130	70 70	89.1% 103%	0 0	10.0 20.0	1.0 10	8.915 20.60	TPHC Diesel (C12-C22) TPHC Motor Oil
Batch ID: 15626 Test Code: TPHDMS Units: µg/g Analysis Date 5/2/06 10:29:17 PM Prep Date 5/2/06 Run ID: PResult Run ID: PResult SPK Value SPK Ref Val % Rec LowLimit HighLimit RPD Ref Val %	Qual	RPDLimit	%RPD	RPD Ref Val		LowLimit	% Rec	SPK Ref Val	SPK value	Limit	Result	Analyte
Batch ID: 15626 Test Code: TPHDMS Units: µg/g Analysis Date 5/2/06 10:29:17 PM Prep Date 5/2/06 Run ID: Prep Date 5/2/06 Run ID: Prep Date 5/2/06 ORGC7_060502A SeqNo:				ະ		SeqNo:		502A	ORGC7_060	Run (D:		Client ID:
Batch ID: 15626 Test Code: TPHDMS Units: µg/g Analysis Date 5/2/06 10:29:17 PM Prep Date 5/2/06 Run ID: ORGC7_060502A SeqNo: 590022 590022 Result Limit SPK value SPK Ref Val % Rec LowLimit HighLimit RPD Ref Val % RPD Imit 8.954 1.0 10.0 89.5% 70 130 0 20.66 10 20.0 0 103% 70 130 0	Table 1990 September	ate 5/2/06	Prep D	6 10:49:44 PM	s Date <i>5/2/</i> 0	Analysi	ANCHINOSIS CONTRACTOR	Units: µg/g	TPHDMS	Test Code	Batch ID: 15626	Sample ID LCSD-15626
Batch ID: 15626 Test Code: TPHDMS Units: µg/g Analysis Date 5/2/06 10:29:17 PM Prep Date 5/2/06 Run ID: ORGC7_060502A SeqNo: 590022 Result Limit SPK value SPK Ref Val % Rec LowLimit HighLimit RPD Ref Val %RPD RPDLimit	The state of the s			0	130	70 70	89.5% 103%	0	10.0 20.0	1.0 · 10	8.954 20.66	TPHC Diesel (C12-C22) TPHC Motor Oil
Batch ID: 15626 Test Code: TPHDMS Units: μg/g Analysis Date 5/2/06 10:29:17 PM Run ID: ORGC7_060502A SeqNo: 590022	Qual	RPDLimit	%RPD	RPD Ref Val	HighLimit	LowLimit	% Rec	SPK Ref Val	SPK value	Limit	Result	Analyte
	\$2000000000000000000000000000000000000	ate 5/2/06	Prep D)6 10:29:17 PM 22	s Date 5/2/0	Analysi SeqNo:	NANHERICIA GRANA PARA FOR CONTROL PROPERTY CONTROL	Units: µg/g 502A	TPHDMS ORGC7_060	Test Code Run ID:	Batch ID: 15626	Sample ID LCS-15626 Client ID:

	Servio: 500649	0503B	Run ID: ORGC8 060503R		Client ID:
Prep Date 5/3/06	Analysis Date 5/3/06 8:28:05 PM	Units: µg/g	Test Code: BTXES	Batch ID: 15639	Sample ID MB-15639
EXTENSION TO THE TRANSFER STATE OF THE TRANS	CONTROL OF THE STATE OF THE STA	TATA CORPORATION PROCESSION OF DESCRIPTION OF THE CORPORATION OF THE C	MINAMENTAL PROPERTY OF THE PRO	in in the second state of the second	
Method Blank				0014280311400	Project: 001
CC SCIVILINIAN I KETOKI				0604526	Work Order: 060
				Winzler and Kelly	CLIENT: Wii
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Sample ID MB-15639	Batch ID: 15639	Test Code: BTXES	BTXES	Units: µg/g	DESCRIPTION OF THE PROPERTY OF THE PERSONS ASSESSED.	Analysis	Analysis Date 5/3/06 8:28:05 PM	3:28:05 PM	Prep Da	Prep Date 5/3/06	
Client ID:		Run ID:	ORGC8_060503B	503B		SeqNo:	590642				
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	LowLimit HighLimit RPD Ref Val	PD Ref Val	%RPD	RPDLimit	Qual
MTBE	N	0.050	***************************************	-	THE PROPERTY OF THE PERSON OF	The state of the s		(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		A THE PROPERTY AND A STREET, A	The second second second
Benzene	ND	0.0050									
Toluene	ND	0.0050									
Ethylbenzene	ND	0.0050									
m,p-Xylene	S	0.0050									
o-Xylene	ND	0,0050									
Cis-1,2-Dichloroethylene	0.952	0.10	1.00	0	95.2%	72	135	0			
Sample ID MB-5/2/06	Batch ID: R41084	Test Code:	втхєм	Units: µg/L	2003 1900 1900 1900 1900 1900 1900 1900 1	Analysis	Analysis Date 5/2/06 8:59:08 PM	:59:08 PM	Prep Date	ite	AND TOTAL PROPERTY.
Client ID:		Run ID:	ORGC8_060501C	501C		SeqNo:	590012				
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	LowLimit HighLimit RPD Ref Val	PD Ref Val	%RPD	RPDLimit	Qual
MTBE	ND	3.0				TV VOTE AND	100000000000000000000000000000000000000				
Benzene	0.07913	0.50									د
Toluene	ND	0.50			-						
Ethylbenzene	ND	0.50									٠
m,p-Xylene	ND	0.50									
o-Xylene	ND	0.50									
Cis-1,2-Dichloroethylene	0.878	0.10	1.00	0	87.8%	85	115	0			
Sample ID MB-15643	Batch ID: 15643	Test Code: SGTPDMS	SGTPDMS	Units: µg/g	SEMMED TO THE POST OF THE PROPERTY OF THE PROP	Analysis I	Analysis Date 5/10/06 8:20:20 PM	8:20:20 PM	Prep Da	Prep Date 5/4/06	604Michinalitamaquasi
Client ID:		Run ID:	ORGC5_060510B	10B		SeqNo:	591623				
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	LowLimit HighLimit RPD Ref Val	D Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22) TPHC Motor Oil	0.8706 ND	1.0	V. Donata			WWW.more.univ.univ.univ.univ.univ.univ.univ.univ		**************************************		The state of the s	د

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

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NORTH COAST	LABORATORIES LTD.	5680 West End Road • Arcata • CA 95521-9202 707-822-4649 Fax 707-822-6831
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LABORATORY NUMBER:

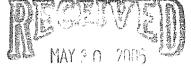
Attention: MIRCH WINS Results & Invoice to: WINGER & Address: 622 Till &			PRESERVATIV	72H/MO	<u> </u>					TAT: □ 24 Hr □ 48 Hr □ 5 Day □ 5–7 Day □ 5TD (2–3 Wk) □ Other: □ PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES
Copies of Report to:			CONTAINER							REPORTING REQUIREMENTS: State Forms ☐ Preliminary: FAX ☐ Verbal ☐ By: / / /
Sampler (Sign & Print):			Si							ODES: 1—1/2 gal. pl; -1 L Nalgene; 5—250 1 L BG: 8—1 L cg
1 ::			EYJA M	TSM Xa	X.					10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other
Purchase Order Number:			or or other sections of the section	a Gr Jaj						PRESERVATIVE CODES: a—HNO ₃ ; b—HCl; c—H ₂ SO ₄ ; d—Na ₂ S ₂ O ₃ ; e—NaOH; f—C ₂ H ₃ O ₂ Cl; g—other
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*MATRIX: DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT



May 26, 2006



WK - EUREKA

Order No.:

0605363

Invoice No.:

58398

PO No.:

ELAP No. 1247-Expires July 2006

Winzler and Kelly 633 Third Street Eureka, CA 95501

Attn: Colleen Ellis

RE: 00H2803.11400 BLFP

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	B2-17-5b
01B	B2-17-5b
02A	B2-17-6.5b
03A	B2-16-5b
03B	B2-16-5b
04A	B2-16-6.5b
04B	B2-16-6.5b
05A	B2-17
05D	B2-17
06A	B2-16
06D	B2-16
07A	Travel Blank

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

All solid results are expressed on a wetweight basis unless otherwise noted.

REPORT-CERTIFIED BY

Laboratory Supervisor(s)

QA Unit

Jesse G. Chaney, Jr. Laboratory Director

North Coast Laboratories, Ltd.

CLIENT:

Winzler and Kelly

Project:

00H2803.11400 BLFP

Lab Order:

0605363

CASE NARRATIVE

Date: 26-May-06

All samples submitted for a silica gel cleanup were initially analyzed for diesel/motor oil. The samples showing no detectable levels of the analytes were not subjected to the cleanup procedure.

TPH as Diesel/Motor Oil w/ Silica Gel Cleanup - Soil:

Due to a contaminate present in the method blank and sample B2-17-5b, the reporting limit for this sample was raised.

The relative percent difference (RPD) for the laboratory control samples was above the acceptance limit for diesel. This indicates that the results could be variable. Since there were no detectable levels of analyte in the samples, the data were accepted.

BTEX:

The reporting limit for MTBE was raised for sample B2-17 due to matrix interference.

TPH as Diesel/Motor Oil - Soil:

The relative percent difference (RPD) for the laboratory control samples was above the acceptance limit for diesel. This indicates that the results could be variable. Since there were no detectable levels of analyte in the sample, the data were accepted.

TPH as Diesel/Motor Oil - Water:

The relative percent difference (RPD) for the laboratory control samples was above the acceptance limit for motor oil. This indicates that the results could be variable. Since there were no detectable levels of analyte in the sample, the data were accepted.

26-May-06

WorkOrder: 0605363

ANALYTICAL REPORT

Client Sample ID: B2-17-5b Lab ID: 0605363-01A

Received: 5/16/06

Collected: 5/15/06 17:01

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup

Reference: EPA 3550/3630/GCFID(LUFT)/8015B

					, ,	
<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	\mathbf{DF}	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	1.5	µg/g	1.0	5/19/06	5/24/06
TPHC Motor Oil	54	10	µg/g	1.0	5/19/06	5/24/06

Client Sample ID: B2-17-5b

Received: 5/16/06

Collected: 5/15/06 17:01

Lab ID: 0605363-01B

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

<u>Parameter</u>	•	Result	Limit	Units	$\underline{\mathbf{DF}}$	Extracted	Analyzed
MTBE		ND	0.050	µg/g	1.0	5/16/06	5/17/06
Benzene		ND	0.0050	μg/g	1.0	5/16/06	5/17/06
Toluene		ND	0.0050	µg/g	1.0	5/16/06	5/17/06
Ethylbenzene		ND	0.0050	μg/g	1.0	5/16/06	5/17/06
m,p-Xylene		ND	0.0050	μg/g	1.0	5/16/06	5/17/06
o-Xylene		ND	0.0050	μg/g	1.0	5/16/06	5/17/06
Surrogate: Cis-1	2-Dichloroethylene	98.1	71.8-135	% Rec	1.0	5/16/06	5/17/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	Limit	<u>Units</u>	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	μg/g	1.0	5/16/06	5/17/06

Client Sample ID: B2-17-6.5b Lab ID: 0605363-02A

Received: 5/16/06

Collected: 5/15/06 17:07

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

<u>Parameter</u>	Same Arrestant	general deservation	Result	<u>Limit</u>	<u>Units</u>	DF	Extracted	Analyzed
MTBE	•		ND	0.050	µg/g	1.0	5/16/06	5/17/06
Benzene		-	ND	0.0050	µg/g	1.0	5/16/06	5/17/06
Toluene			ND	0.0050	μg/g	1.0	5/16/06	5/17/06
Ethylbenzene	•		ND	0.0050	μg/g	1.0	5/16/06	5/17/06
m,p-Xylene			ND	0.0050	μg/g	1.0	5/16/06	5/17/06
o-Xylene		• *	ND	0.0050	μg/g	1.0	5/16/06	5/17/06
Surrogate: (Cis-1,2-Dichloroethyl	ene	97.4	71.8-135	% Rec	1.0	5/16/06	5/17/06

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup

Reference: EPA 3550/3630/GCFID(LUFT)/8015B

Parameter	Result	<u>Limit</u>	<u>Units</u>	<u>DF</u>	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	1.0	µg/g	1.0	5/19/06	5/24/06
TPHC Motor Oil	ND	10	μg/g	1.0	5/19/06	5/24/06

26-May-06

WorkOrder:

0605363

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

Parameter

TPHC Gas (C6-C14)

Result ND Limit 1.0

Units μg/g

DF 1.0

Extracted 5/16/06

ANALYTICAL REPORT

Analyzed 5/17/06

Client Sample ID: B2-16-5b

Received: 5/16/06

Collected: 5/15/06 17:45

Lab ID: 0605363-03A

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

Parameter

TPHC Diesel (C12-C22) TPHC Motor Oil

Result Limit ND 1.0 ND 10

Units μg/g μg/g

 \mathbf{DF} Extracted 1.0 5/17/06 1.0 5/17/06

Analyzed 5/18/06 5/18/06

Client Sample ID: B2-16-5b

Received: 5/16/06

Collected: 5/15/06 17:45

Lab ID: 0605363-03B

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

<u>Parameter</u>		Result	<u>Limit</u>	<u>Units</u>	$\overline{ extbf{DF}}$	Extracted	Analyzed
MTBE		ND	0.050	µg/g	1.0	5/16/06	5/17/06
Benzene		ND	0.0050	μg/g	1.0	5/16/06	5/17/06
Toluene		ND	0.0050	μg/g	1.0	5/16/06	5/17/06
Ethylbenzene		ND	0.0050	μg/g	1.0	5/16/06	5/17/06
m,p-Xylene		ND	0.0050	μg/g	1.0	5/16/06	5/17/06
o-Xylene		ND	0.0050	μg/g	1.0	5/16/06	5/17/06
Surrogate: Cis	s-1,2-Dichloroethylene	98.5	71.8-135	% Rec	1.0	5/16/06	5/17/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

Parameter

TPHC Gas (C6-C14)

Limit

Units μg/g

Extracted 5/16/06

Analyzed 5/17/06

Client Sample ID: B2-16-6.5b Lab ID: 0605363-04A

Received: 5/16/06

Collected: 5/15/06 17:59

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup

Reference: EPA 3550/3630/GCFID(LUFT)/8015B

Parameter TPHC Diesel (C12-C22) TPHC Motor Oil

ND ND

Result

Result

ND

1.0 10

Limit

1.0

μg/g μg/g

Units

 \mathbf{DF} 1.0 1.0

DF

1.0

Extracted 5/19/06 5/19/06

Analyzed 5/24/06 5/24/06

Page 2 of 4

26-May-06

WorkOrder: 0605363

ANALYTICAL REPORT

Client Sample ID: B2-16-6.5b

Received: 5/16/06

Collected: 5/15/06 17:59

Lab ID: 0605363-04B

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	<u>DF</u>	Extracted	Analyzed
MTBE	ND	0.050	μg/g	1.0	5/16/06	5/17/06
Benzene	ND	0.0050	μg/g	1.0	5/16/06	5/17/06
Toluene	ND	0.0050	μg/g	1.0	5/16/06	5/17/06
Ethylbenzene	ND	0.0050	µg/g	1.0	5/16/06	5/17/06
m,p-Xylene	ND	0.0050	μg/g	1.0	5/16/06	5/17/06
o-Xylene	ND	0.0050	µg/g	1.0	5/16/06	5/17/06
Surrogate: Cis-1,2-Dichloroethylene	102	71.8-135	% Rec	1.0	5/16/06	5/17/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	hâ\â	1.0	5/16/06	5/17/06

Client Sample ID: B2-17

Received: 5/16/06

Collected: 5/15/06 17:20

Lab ID: 0605363-05A

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	DF	Extracted	Analyzed
MTBE	ND	6.0	μg/L	1.0		5/17/06
Benzene	ND	0.50	μg/L	1.0		5/17/06
Toluene	ND	0.50	µg/L	1.0		5/17/06
Ethylbenzene	ND	0.50	μg/L	1.0		5/17/06
m,p-Xylene	ND	0.50	μg/L	1.0		5/17/06
o-Xylene	ND	0.50	μg/L	1.0		5/17/06
Surrogate: Cis-1,2-Dichloroethylene	96.5	85-115	% Rec	1.0		5/17/06

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	<u>DF</u>	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	50	µg/L	1.0		5/17/06

Client Sample ID: B2-17

Received: 5/16/06

Collected: 5/15/06 17:20

Lab ID: 0605363-05D

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	Units	$\overline{ ext{DF}}$	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	μg/L	1.0	5/16/06	5/16/06
TPHC Motor Oil	ND	170	μg/L	1.0	5/16/06	5/16/06

26-May-06

WorkOrder: 0605363

ANALYTICAL REPORT

Client Sample ID: B2-16

Received: 5/16/06

Collected: 5/15/06 18:05

Lab ID: 0605363-06A

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

<u>Parameter</u>	Result	Limit	<u>Units</u>	DF	Extracted	Analyzed
MTBE	ND	3.0	μg/L	1.0		5/17/06
Benzene	ND	0.50	μg/L	1.0		5/17/06
Toluene	0.56	0.50	μg/L	1.0		5/17/06
Ethylbenzene	ND	0.50	µg/L	1.0		5/17/06
m,p-Xylene	ND	0.50	μg/L	1.0		5/17/06
o-Xylene	ND	0.50	μg/L	1.0		5/17/06
Surrogate: Cis-1,2-Dichloroethylene	100	85-115	% Rec	1.0		5/17/06

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	<u>DF</u>	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	50	μg/L	1.0		5/17/06

Client Sample ID: B2-16

Received: 5/16/06

Collected: 5/15/06 18:05

Lab ID: 0605363-06D

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup

Reference: EPA 3510/3630/GCFID(LUFT)/8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	5/19/06	5/22/06
TPHC Motor Oil	ND	170	μg/L	1.0	5/19/06	5/22/06

Client Sample ID: Travel Blank

Received: 5/16/06

Collected: 5/15/06 0:00

Lab ID: 0605363-07A

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

<u>Parameter</u>		£ 44	Result	<u>Limit</u>	Units	<u>DF</u> <u>Extracted</u>	Analyzed
MTBE			ND	3.0	μg/L	1.0	5/16/06
Benzene			ND	0.50	μg/L	1.0	5/16/06
Toluene			ND	0.50	μg/L	1.0	5/16/06
Ethylbenzene	2		ND	0.50	μg/L	1.0	5/16/06
m,p-Xylene			ND	0.50	μg/L	1.0	5/16/06
o-Xylene			ND	0.50	μg/L	1.0	5/16/06
Surrogate: C	is-1,2-Dichloroethylene		89.0	85-115	% Rec	1.0	5/16/06

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QC SUMMARY REPORT 00H2803.11400 BLFP Winzler and Kelly 0605363 Work Order: CLIENT: Project:

Method Blank

Date: 26-May-06

		Prep Date 5/16/06
Result Limit SPK value SPK Ref Value	SeqNo: 592867	
ND	% Rec LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
e 0.004562 0.0050 ence ence ND 0.0056 ence ence ence ND 0.0050 ence ence ence ND 0.006 ence ence ence ence ence ence ence enc		With the state of
Dichloroethylene 0.004562 0.0050 Each ND 0.0050 ND Sebult Limit SPK value SPK Ref Val ND 0.2270 0.50 ND 0.50 ND		
nzene ND 0.0050 e ND 0.0050 Dichloroethylene 0.983 0.10 1.00 0 Dichloroethylene Batch ID: R41305 Test Code: BTXEW Units: µg/L Dichloroethylene Batch ID: R41305 Test Code: BTXEW Units: µg/L Dichloroethylene 0.0270 0.50 A A A Dichloroethylene 0.2095 0.50 A A A Dichloroethylene 0.956 0.10 Test Code: SGTPDMS Units: µg/IB Dichloroethylene 0.956 0.70 A A A A Dichloroethylene 0.956 0.10 Test Code: SGTPDMS Units: µg/IP <t< td=""><td></td><td></td></t<>		
ene ND 0.0050 E. Dichloroethylene 0.983 0.10 1.00 0.0050 ID MB-5/16/06 Batch ID: R41305 Test Code: BTXEW Units: µg/L C. Result Limit SPK value SPK Ref Val SOL 0.007938 0.50 ID MB-15750 0.50 Batch ID: 15750 0.50 Dichloroethylene 0.956 0.50 ID MB-15750 Batch ID: 15750 Test Code: SGTPDMS Units: µg/g Run ID: Result Limit SPK value SPK Ref Val SOL 0.50 Run ID: Result Limit SPK value SPK Ref Val SOL 0.50 Run ID: Result Limit SPK value SPK Ref Val Sol 0.50 Run ID: Result Limit SPK value SPK Ref Val Sol 0.50 Run ID: Result Limit SPK value SPK Ref Val Sol 0.50		•
e ND 0.0050 Dichloroethylene 0.983 0.10 1.00 0 ID MB-5/16/06 Batch ID: R41305 Test Code: BTXEW Units: µg/L Dichloroethylene ND 3.0 Run ID: ORGC8_060516C Actor ND 3.0 RK value SPK Ref Val Actor 0.07938 0.50 RK value SPK Ref Val Actor 0.2270 0.50 RK Ref Val 0.50 Brich ID: 15750 0.50 RK Ref Val 0.50 0.50 Brich ID: 15750 Test Code: SGTPDMS Units: µg/g Brich ID: 15750 Run ID: ORGC5_060524A		
Dichloroethylene 0.983 0.10 1.00 0 ID MB-5/16/06 Batch ID: R41305 Test Code: BTXEW Units: µg/L D: Result Imit SPK Ref Val Result Limit SPK value SPK Ref Val ND 0.07938 0.50 Result 0.50 ane 0.2270 0.50 Result 0.50 bichloroethylene 0.2095 0.50 Result 0.10 0.10 iD MB-15750 Batch ID: 15750 Test Code: SGTPDMS Units: µg/g D: Run ID: Rimit SPK value SPK Ref Val		
D MB-5/16/06 Batch ID: R41305 Test Code: BTXEW Units: µg/L		
D: Result Limit SPK value SPK Ref Val ND 3.0 3.0 3.0 3.0 nzene 0.07938 0.50 3.0 3.0 nzene ND 0.50 3.0 3.0 e 0.2095 0.50 3.0 3.0 bichloroethylene ND 0.50 3.0 3.0 iD MB-15750 Batch ID: 15750 Test Code: SGTPDMS Units: µg/g 3: Run ID: ORGC5_060524A 3.0	Analysis Date 5/16/06 10:34:17 PM	Prep Date
Result Limit SPK value SPK Ref Val e 0.07938 0.50 A nzene 0.2270 0.50 A ene 0.2095 0.50 A e 0.2095 0.50 A Dichloroethylene 0.956 0.10 1.00 0 ID MB-15750 Batch ID: 15750 Test Code: SGTPDMS Units: µg/g D: Run ID: Rimi ID: Rimi ID: Run ID:	3516C SeqNo: 592757	
ND 3.0 and the state of the state	SPK Ref Val % Rec LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
e 0.07938 0.50 t 0.2270 0.50 nzene ND 0.50 ene 0.2095 0.50 Dichloroethylene 0.956 0.10 1.00 0 ID MB-15750 Batch ID: 15750 Test Code: SGTPDMS Units: µg/g Number ID: 15750 Run ID: Result ORGC5_060524A		
rzene 0.2270 0.50 nzene ND 0.50 ene 0.2095 0.50 Dichloroethylene 0.956 0.10 1.00 0 ID MB-15750 Batch ID: 15750 Test Code: SGTPDMS Units: µg/g Chur ID: Result Result Limit SPK value SPK Ref Val		
nzene ND 0.50 ene 0.2095 0.50 a Dichloroethylene 0.956 0.10 1.00 0 ID MB-15750 Batch ID: 15750 Test Code: SGTPDMS Units: µg/g Charles Run ID: Run I		,
e		
Dichloroethylene 0.956 0.10 1.00 0 ID MB-15750 Batch ID: 15750 Test Code: SGTPDMS Units: μg/g Number ID: MB-15750 Run ID: ORGC5_060524A Result Limit SPK value SPK Ref Val		7
Dichloroethylene 0.956 0.10 1.00 0 ID MB-15750 Batch ID: 15750 Test Code: SGTPDMS Units: μg/g Run ID: ORGC5_060524A Result Limit SPK value SPK Ref Val		
ID MB-15750 Batch ID: 15750 Test Code: SGTPDINS Units: µg/g Run ID: ORGC5_060524A Result Limit SPK value SPK Ref Val		
Run ID: ORGC5_060524A Result Limit SPK value SPK Ref Val	Analysis Date 5/24/06 3:31:42 PM	Prep Date 5/19/06
Result Limit SPK value SPK Ref Val	SeqNo: 595104	
	SPK Ref Val % Rec LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
TPHC Diesel (C12-C22) 1.009 1.0		Annua maranta da Anta-Anta-Anta-Anta-Anta-Anta-Anta-Anta-
TPHC Motor Oil ND 10		

J - Analyte detected below quantitation limits ND - Not Detected at the Reporting Limit Qualifiers:

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Winzler and Kelly
Work Order: 0605363

Project: 00H2803.11400 BLFP

QC SUNMARY REPORT

Method Blank

Result Limit SPK value S			
Result Limit SPK value S			
47.65	SPK value SPK Ref Val % Rec LowLimit HighLimit	RPD Ref Val %RPD RPDLimit C	Qual
Batch ID: 15713	50	e de la companya del la companya de la companya de	
Result Limit SPK value S	ode: TPHCGS Units: µg/g Analysis Date 5/17/06 4:24:14 AM SeqNo: 592806	6 4:24:14 AM Prep Date 5/16/06	
D.4148		%RPD RPDLimit	Qual
Batch ID: R41303 Test Code: TPHCGW	0.1		_
ND 50	de:	6 10:34:17 PM Prep Date	
ND 50	SPK value SPK Ref Val % Rec LowLimit HighLimit	RPD Ref Val %RPD RPDLimit	Qual
Batch ID: 15727 Test Code: TPHDMS Run ID: ORGC7_06051 Result Limit SPK value <	50		A.A.B.C.B.C.B.C.B.C.C.C.C.C.C.C.C.C.C.C.
Result Limit SPK value S 0.7577 1.0 ND 10 Batch ID: 15711 Test Code: TPHDIMW Run ID: ORGC7_06051	de: TPHDMS Units: µg/g Analysis Date	3 7:52:56 PM Prep Date 5/17/06	Principal de la constantina della constantina de
0.7577 1.0 ND 10 Batch ID: 15711 Test Code: TPHDIMW Run ID: ORGC7_060511 Result Limit SPK value 8	it SPK value SPK Ref Val % Rec Lo	%RPD RPDLimit	Qual
Batch ID: 15711 Test Code: TPHDIMW Run ID: ORGC7_060511 Result Limit SPK value 8	1.0		ſ
Result Limit SPK value	de:	55:19:03 PM Prep Date 5/16/06	
	SPK value SPK Ref Val % Rec LowLimit HighLimit	RPD Ref Val %RPD RPDLimit Q	Qual
TPHC Diesel (C12-C22) TPHC Motor Oil ND 170	02 02		

ND - Not Detected at the Reporting Limit J - Analyte detected below quantitation fimits

Qualifiers:

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

North Coast Laboratories, Ltd.

CLIENT: Winzler and Kelly

Work Order: 0605363

Project: 00H2803.11400 BLFP

A Annual Control of the Control of t

Date: 26-May-06

QC SUIMMARY REPORT
Laboratory Control Spike

Sample ID LCS-15713	Batch ID: 15713	Test Code: BTXES	BTXES	Units: µg/g	a formed plays to recommend a company of the page of t	Analysis	Date 5/17/	Analysis Date 5/17/06 1:29:32 AM	Prep D.	Prep Date 5/16/06	TANSPORT CONTRACTOR
Client ID:		Run ID:	ORGC8_060516E	516E		SeqNo:	592865	32			
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	0,4007	0.050	0.400	0	100%	75	124	0	00000000000000000000000000000000000000	7-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A	
Benzene	0.05120	0.0050	0.0500	0	102%	80	128	0			
Toluene	0.05408	0.0050	0.0500	0	108%	85	126	0			
Ethylbenzene	0.05340	0.0050	0.0500	0	107%	80	126	0			
m,p-Xylene	0.1012	0.0050	0.100	0	101%	84	130	0			
o-Xylene	0.05173	0.0050	0.0500	0	103%	84	125	0			
Cis-1,2-Dichloroethylene	e 1.07	0.10	1.00	0	107%	72	135	0			
Sample ID LCSD-15713	13 Batch ID: 15713	Test Code: BTXES	BTXES	Units: µg/g		Analysis	Date 5/17/	Analysis Date 5/17/06 2:04:30 AM	Prep Da	Prep Date 5/16/06	Aption and a second
Client ID:		Run ID:	ORGC8_060516E	116E		SeqNo:	592866	99			
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	0,4012	0.050	0.400	0	100%	7.5	124	0.401	0.121%	15	
Benzene	0.05119	0.0050	0.0500	Q	102%	80	128	0.0512	0.00996%	<u>ਨ</u>	
Toluene	0.05387	0.0050	0.0500	0	108%	85	126	0.0541	0.378%	15	
Ethylbenzene	0.05353	0.0050	0.0500	0	107%	80	126	0.0534	0.231%	ئ	
m,p-Xylene	0.1009	0.0050	0.100	0	101%	84	130	0.101	0.334%	15	
o-Xylene	0.05152	0.0050	0.0500	0	103%	84	125	0.0517	0.405%	15	
Cis-1,2-Dichloroethylene	e 1.07	0.10	1.00	0	107%	72	135	1.07	0.0441%	15	
		erogramiya (1904-1905) 1904-yal					*.				
Qualifiers: ND	ND - Not Detected at the Reporting Limit		S - Spi	S - Spike Recovery outside accepted recovery limits	accepted reco	overy limits	B	B - Analyte detected in the associated Method Blank	in the associate	ed Method Blan	
J - J	J - Analyte detected below quantitation limits	iits	R - RP	R - RPD outside accepted recovery limits	recovery limits						

CLIENT: Winzler and Kelly

Work Order: 0605363

Project: 00H2803.11400 BLFP

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID LCS-06297	Batch ID: R41305	Test Code: BTXEW	BTXEW	Units: µg/L	NAHATAN PERENCANAN NAMED IN THE PERENCANAN NAMED IN TH	Analysis	Date 5/16	Analysis Date 5/16/06 7:38:18 PM	Prep Date	ate	
Client ID:		Run ID:	ORGC8_060516C	716C		SeqNo:	592755	55			
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	45.64	3.0	40.0	0	114%	85	115	0			
Benzene	5.191	0.50	5.00	0	104%	85	115	0			
Toluene	5.696	0.50	5.00	0	114%	82	115	0	-		
Ethylbenzene	5.512	0.50	5.00	0	110%	85	115	0			
m.p-Xylene	10.94	0.50	10.0	0	109%	85	115	0		-	
o-Xylene	5.469	0.50	5.00	0	109%	85	115	0			
Cis-1,2-Dichloroethylene	1.10	0.10	1.00	0	110%	85	115	0			
Sample ID LCSD-06297	Batch ID: R41305	Test Code:	le; BTXEW	Units: µg/L		Analysis	Date 5/16/	Analysis Date 5/16/06 8:13:35 PM	Prep Date	ate	***************************************
Client ID:		Run ID:	ORGC8_060516C	116C		SedNo:	592756	99			
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	45.04	3.0	40.0	0	113%	85	115	45.6	1.34%	15	
Benzene	5.175	0.50	5.00	0	103%	85	115	5.19	0.311%	15	
Toluene	5.396	0.50	5.00	0	108%	85	115	5.70	5.40%	15	
Ethylbenzene	5.360	0.50	5.00	0	107%	82	115	5.51	2.79%	15	
m,p-Xyfene	10.61	0.50	10.0	0	106%	85	115	10.9	3.06%	15	
o-Xyfene	5.324	0.50	5.00	0	106%	85	115	5.47	2.69%	15	
Cis-1,2-Dichloroethylene	1.13	0.10	1.00	0	113%	85	15	1.10	2.19%	15	
Sample ID LCS-15750	Batch ID: 15750	Test Code:	e: SGTPDMS	Units: µg/g	n pernember darak produktion	Analysis	Date 5/24/	Analysis Date 5/24/06 12:28:07 PM	Prep D	Prep Date 5/19/06	THE STATE OF THE S
Client ID:		Run ID:	ORGC5_060524A	24A		SeqNo:	595101	_			
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	6.830	1.0	10.0	0	68.3%	29	111	O TOTAL OR A TOTAL OR			В
TPHC Motor Oil	13.28	10	20.0	0	66.4%	46	114	0			
			é								

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

Qualifiers:

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Winzler and Kelly Work Order: 0605363

Project: 00H2803.11400 BLFP

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

Sample ID LCSD-15750	Batch ID: 15750	Test Code:	Test Code: SGTPDMS	Units: µg/g		Analysis	Date 5/24/	Analysis Date 5/24/06 12:50:56 PM	Prep Da	Prep Date 5/19/06	- CANADA
Client ID:		Run ID;	ORGC5_060524A	24A		SedNo:	595102	2			
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22) TPHC Motor Oil	4.840	1.0	10.0 20.0	0	48.4%	29	111	6.83 13.3	34.1% 11.5%	र र	BR
Sample ID LCS-15749	Batch ID: 15749	Test Code	Test Code: SGTPDMW	Units: µg/L	ACCOUNT OF THE PROPERTY OF THE	Analysis	Date 5/22/	Analysis Date 5/22/06 1:25:54 PM	Prep Date	ite 5/19/06	His control of the co
Client I.D.: Analyte	Result	run 10: Limit	OKGC5_060522A SPK value SPI	SPK Ref Val	% Rec	seqno: LowLimit	594557 HighLimit R	/ RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22) TPHC Motor Oil	419.9	50	500	47.6	74.4%	46	91	0			
Sample ID LCS-15713-G	Batch ID: 15713	Test Code: TPHCGS	TPHCGS	Units: µg/g		Analysis	Date 5/17//	Analysis Date 5/17/06 2:39:27 AM	Prep Da	Prep Date 5/16/06	
Client ID:		Run ID:	ORGC8_060516D	16D		SedNo:	592804	4			
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)	11.22	1.0	10.0	0	112%	102	128	0	AND THE PROPERTY OF LAND AND A SECOND A SECOND AND A SECOND A SECO		
Sample ID LCSD-15713-G	Batch ID: 15713	Test Code: TPHCGS	TPHCGS Ur	Units: µg/g		Analysis SegNo:	Date 5/17/06	Analysis Date 5/17/06 3:14:23 AM Sealor 592805	Prep Da	Prep Date 5/16/06	E-CANACIAN CANACIAN C
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)	10.91	1.0	10.0	0	109%	102	128	11.2	2.74%	15	
Sample ID LCS-06298 Client ID:	Batch ID: R41303	Test Code: TPHCGW Run ID: ORGC8_0	TPHCGW Ur	Units: µg/L 16A		Analysis SeqNo:	Date 5/16/06 592748	Analysis Date 5/16/06 8:48:52 PM SeqNo: 592748	Prep Date	te	enacements:
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLímit	HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)	484.8	20	200	0	%0'26	85	115	0		A CONTRACTOR OF THE CONTRACTOR	

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

Winzler and Kelly 0605363 00H2803.11400 BLFP CLENT:

Work Order:

Project:

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Laboratory Control Spike Duplicate

Sample ID LCSD-06298	3 Batch ID: R41303	Test Code	Test Code: TPHCGW	Units: µg/L		Analysis	: Date 5/16/(Analysis Date 5/16/06 9:24:05 PM	Prep Date	ate	
Cifent ID:		Run ID:	ORGC8_060516A	516A		SeqNo:	592749	6			
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)	. 486.6	20	200	O www.dow.dow.dow.dow.dow.dow.dow.dow.dow.	97.3%	85	115	485	0.354%	15	
Sample ID LCS-15727 Client ID:	Batch ID: 15727	Test Code: Run ID:	Test Code: TPHDMS Ur Run ID: ORGC7 060518B	Units: µg/g 518B	SECONDATE CONTROL OF THE SECONDATE OF TH	Analysis SeqNo:	5 Date 5/18/06 593974	Analysis Date 5/18/06 5:48:22 PM SeqNo: 593974	Prep D	Prep Date 5/17/06	
Analyte	Result	Ţ,	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22) TPHC Motor Oil	11.00	1.0	10.0	0	110% 103%	70	130	0			
Sample ID LCSD-15727	, Batch ID: 15727	Test Code	Test Code: TPHDMS	Units: µg/g	interioristical description of the second	Analysis	: Date 5/18/0	Analysis Date 5/18/06 6:08:56 PM	Prep D.	Prep Date 5/17/06	
Client (D:		Run ID:	ORGC7_060518B	518B		SeqNo:	593975	ĵ.			
Analyte	Result	Cimit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22) TPHC Motor Oil	8.812	1.0	10.0	0 0	88.1% 95.3%	07 07	130	11.0	22.1% 8.21%	5 5	œ
Sample ID LCS-15711	Batch ID: 15711	Test Code.	Test Code: TPHDMW	Units: µg/L	KOKKKKISSTOCKONOMOJISTITUTE	Analysis	Date 5/16/0	Analysis Date 5/16/06 3:16:01 PM	Prep Da	Prep Date 5/16/06	
Client ID:		Run ID:	ORGC7_060516A	516A		SedNo:	592718	ж			
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Quai
TPHC Diesel (C12-C22) TPHC Motor Oil	416.3	50 170	1,000	0	83.3% 123%	72	124 139	0 0		Manufacture of the Control of the Co	
Sample ID LCSD-15711	Batch ID: 15711	Test Code:	ide: TPHDMW	Units: µg/L		Analysis	Date 5/16/0	Analysis Date 5/16/06 3:36:39 PM	Prep Da	Prep Date 5/16/06	
Client ID:		Run ID:	ORGC7_060516A	516A		SedNo:	592719	-			
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22) TPHC Motor Oil	373.2 966.5	50 170	1,000	0 0	74.6% 96.6%	72	124 139	416	10.9%	15 15	Œ
Qualifiers: ND - J - An	ND - Not Detected at the Reporting Limit J - Analyte detected below quantitation limits	nits	S - Sp R - RF	S - Spike Recovery outside accepted recovery limits R - RPD outside accepted recovery limits	e accepted recordecovery limit.	overy limits	B -	B - Analyte detected in the associated Method Blank	n the associate	ed Method Bla	nk

NORTH COAST	LABORATORIES LTD.	5680 West End Road - Arcata - CA 95521-9202
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LABORATORY NUMBER:

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CHAIN OF CUSTODY SEALS Y/N/NA				
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☐ NCL Disposal of Non-Contaminated				
	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME	RELINQUISHED BY (Sign & Print)
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SAMPLE CONDITION/SPECIAL INSTRUCTION	***************************************		TIME MATRIX*	BID SAMPLEID DATE
d—Na ₂ S ₂ O ₃ ; e—NaOH; f—C ₂ H ₃ O ₂ Cl; g—other	Marine Ma	2/ 2/4 2/4 0/4		urchase Order Number:
DDECEMBORATIVE CORRECT LIND IN LINE				roject Name:
10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass j		X Y X		roject Number: <u>00 叶2名03 。 ロー</u> の
3—500 ml pt; 4—1 L Nalgene; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VO		SI		PROJECT INFORMATION
CONTAINER CODES: 1-1/2 gal. pl; 2-250 ml pl;			3	ampler (Sign & Print):
Final Report: FAX□ Verbal□ By:/				
Preliminary: FAX□ Verbal□ By:_/_/				of Report
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PRIOR AUTHORIZATION IS REOUIRED FOR RUSI				
☐ STD (2–3 Wk) ☐ Other:			<u> </u>	Oice to: NOV ON C
IAI: ☐ 24 Hr ☐ 48 Hr ☐ 5 Day ☐ 5-7 D.				Ittention.

*MATRIX: DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.





June 08, 2006

WK-FIREKA

Winzler and Kelly 633 Third Street Eureka, CA 95501

Attn: Colleen Ellis

RE: 00142803.11400 Blue Lake Forest Products

Order No.: 0605418 Invoice No.: 58677

PO No.:

ELAP No. 1247-Expires July 2006

SAMPLE IDENTIFICATION

Fraction	Client Sample Description	
01A	MW-16-5	
01B	MW-16-5	
02A	MW-16-10	
02B	MW-16-10	
03A	MW-16-15	
03B	MW-16-15	
04A	MW-16-20	
04B	MW-16-20	
05A	MW-15-5	
05B	MW-15-5	
06A	MW-15-10	
06B	MW-15-10	
07A	MW-15-15	
07B	MW-15-15	
A80	MW-15-20	
08B	MW-15-20	
09A	Rinsate Drum	
. 09B	Rinsate Drum	

ND = Not Detected at the Reporting Limit Limit = Reporting Limit

All solid results are expressed on a wetweight basis unless otherwise noted.

REPORT CERTIFIED BY

Laboratory Supervisor(s)

QA Unit

Jesse G. Chaney, Jr. Laboratory Director

North Coast Laboratories, Ltd.

CLIENT:

Winzler and Kelly

Project:

00142803.11400 Blue Lake Forest Products

Lab Order:

0605418

CASE NARRATIVE

Date: 12-Jun-06

All samples submitted for a silica gel cleanup were initially analyzed for diesel/motor oil. The samples showing no detectable levels of the analytes were not subjected to the cleanup procedure.

TPH as Diesel/Motor Oil w/ Silica Gel Cleanup - Soil:

Sample MW-15-10 contains material similar to degraded or weathered diesel oil.

Sample MW-15-10 does not have the typical pattern of fresh motor oil. However, the result reported represents the amount of material in the motor oil range.

TPH as Diesel/Motor Oil - Water:

Sample Rinsate Drum contains material in the diesel range of molecular weights, but the material does not exhibit the peak pattern typical of diesel oil.

BTEX - Soil:

Sample MW-15-10 was diluted and some reporting limits were raised additionally due to matrix interference. This sample is also being reported as not detected (ND) with a dilution for some analytes due to matrix interference.

TPH as Gasoline - Soil:

Sample MW-15-10 does not present a peak pattern consistent with that of gasoline. The reported result represents the amount of material in the gasoline range.

Sample MW-15-20 does not present a peak pattern consistent with that of gasoline. The peaks elute towards the end of the gasoline range. In our judgement the material appears to be a product heavier than gasoline. Due to the differences in the purging efficiency of these heavier materials the results may be variable. The reported result represents the amount of material in the gasoline range.

TPH as Gasoline - Water:

Sample Rinsate Drum does not present a peak pattern consistent with that of gasoline. The reported result represent the amount of material in the gasoline range.

08-Jun-06

WorkOrder: 0605418

ANALYTICAL REPORT

Client Sample ID: MW-16-5

Received: 5/18/06

Collected: 5/17/06 11:10

Lab ID: 0605418-01A

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	$\overline{ ext{DF}}$	Extracted	<u>Analyzed</u>
TPHC Diesel (C12-C22)	ND	1.0	μg/g	1.0	5/25/06	5/26/06
TPHC Motor Oil	ND	10	μg/g	1.0	5/25/06	5/26/06

Client Sample ID: MW-16-5

Received: 5/18/06

Collected: 5/17/06 11:10

Lab ID: 0605418-01B

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	<u>DF</u>	Extracted	Analyzed
MTBE	ND	0.050	μg/g	1.0	5/30/06	5/30/06
Benzene	ND	0.0050	μg/g	1.0	5/30/06	5/30/06
Toluene	ND	0.0050	µg/g	1.0	5/30/06	5/30/06
Ethylbenzene	ND	0.0050	µg/g	1.0	5/30/06	5/30/06
m,p-Xylene	ND	0.0050	µg/g	1.0	5/30/06	5/30/06
o-Xylene	ND	0.0050	μg/g	1.0	5/30/06	5/30/06
Surrogate: Cis-1,2-Dichloroethylene	85.2	71.8-135	% Rec	1.0	5/30/06	5/30/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	$\underline{\mathbf{DF}}$	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	μg/g	1.0	5/30/06	5/30/06

Client Sample ID: MW-16-10

Received: 5/18/06

Collected: 5/17/06 11:20

Lab ID: 0605418-02A

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup Reference: EPA 3550/3630/GCFID(LUFT)/8015B

<u>Parameter</u>	Result	Limit	Units	<u>DF</u>	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	1.0	µg/g	1.0	5/30/06	6/6/06
TPHC Motor Oil	ND	10	μg/g	1.0	5/30/06	6/6/06

08-Jun-06

WorkOrder: 0605418

ANALYTICAL REPORT

Client Sample ID: MW-16-10

Received: 5/18/06

Collected: 5/17/06 11:20

Lab ID: 0605418-02B

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

<u>Parameter</u>	Result	Limit	<u>Units</u>	<u>DF</u>	Extracted	Analyzed
MTBE	ND	0.050	μg/g	1.0	5/30/06	5/31/06
Benzene	ND	0.0050	µg/g	1.0	5/30/06	5/31/06
Toluene	ND	0.0050	µg/g	1.0	5/30/06	5/31/06
Ethylbenzene	ND	0.0050	ha/a	1.0	5/30/06	5/31/06
m,p-Xylene	ND	0.0050	μg/g	1.0	5/30/06	5/31/06
o-Xylene	ND	0.0050	μg/g	1.0	5/30/06	5/31/06
Surrogate: Cis-1,2-Dichloroethylene	85.9	71.8~135	% Rec	1.0	5/30/06	5/31/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	$\overline{ ext{DF}}$	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	μg/g	1.0	5/30/06	5/31/06

Client Sample ID: MW-16-15

Received: 5/18/06

Collected: 5/17/06 11:29

Lab ID: 0605418-03A

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	$\overline{ ext{DF}}$	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	1.0	μg/g	1.0	5/25/06	5/26/06
TPHC Motor Oil	ND	10	μg/g	1.0	5/25/06	5/26/06

Client Sample ID: MW-16-15

Received: 5/18/06

Collected: 5/17/06 11:29

Lab ID: 0605418-03B

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

<u>Parameter</u>		Result	<u>Limit</u>	<u>Units</u>	$\overline{ ext{DF}}$	Extracted	Analyzed
MTBE		ND	0.050	μg/g	1.0	5/30/06	5/31/06
Benzene		 ND	0.0050	µg/g	1.0	5/30/06	5/31/06
Toluene		ND	0.0050	µg/g	1.0	5/30/06	5/31/06
Ethylbenzene		ND	0.0050	μg/g	1.0	5/30/06	5/31/06
m,p-Xylene		ND	0.0050	μg/g	1.0	5/30/06	5/31/06
o-Xylene		 ND	0.0050	μg/g	1.0	5/30/06	5/31/06
Surrogate: Ci	is-1,2-Dichloroethylene	 86.4	71.8-135	% Rec	1.0	5/30/06	5/31/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	$\underline{\mathbf{DF}}$	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	µg/g	1.0	5/30/06	5/31/06

08-Jun-06

WorkOrder:

0605418

ANALYTICAL REPORT

Client Sample ID: MW-16-20

Received: 5/18/06

Collected: 5/17/06 11:40

Lab ID: 0605418-04A

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	1.0	μg/g	1.0	5/25/06	5/26/06
TPHC Motor Oil	ND	10 -	µg/g	1.0	5/25/06	5/26/06

Client Sample ID: MW-16-20

Received: 5/18/06

Collected: 5/17/06 11:40

Lab ID: 0605418-04B

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

<u>Parameter</u>		Result	<u>Limit</u>	<u>Units</u>	$\overline{\mathbf{DF}}$	Extracted	Analyzed
MTBE		ND	0.050	µg/g	1.0	5/30/06	5/31/06
Benzene		ND	0.0050	μg/g	1.0	5/30/06	5/31/06
Toluene		ND	0.0050	μg/g	1.0	5/30/06	5/31/06
Ethylbenzene		ND	0.0050	μg/g	1.0	5/30/06	5/31/06
m,p-Xylene		ND	0.0050	μg/g	1.0	5/30/06	5/31/06
o-Xylene		ND	0.0050	µg/g	1.0	5/30/06	5/31/06
Surrogate: Cis-1	2-Dichloroethylene	88.6	71.8-135	% Rec	1.0	5/30/06	5/31/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	\mathbf{DF}	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	µg/g	1.0	5/30/06	5/31/06

Client Sample ID: MW-15-5

Received: 5/18/06

Collected: 5/17/06 15:06

Lab ID: 0605418-05A

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	$\underline{\mathbf{DF}}$	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	1.0	μg/g	1.0	5/25/06	5/26/06
TPHC Motor Oil	ND	10	μg/g	1.0	5/25/06	5/26/06

08-Jun-06

WorkOrder: 0605418

ANALYTICAL REPORT

Client Sample ID: MW-15-5

Received: 5/18/06

Collected: 5/17/06 15:06

Lab ID: 0605418-05B

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	$\overline{\mathbf{DF}}$	Extracted	Analyzed
MTBE	ND	0.050	μg/g	1.0	5/30/06	5/31/06
Benzene	ND	0.0050	µg/g	1.0	5/30/06	5/31/06
Toluene	ND	0.0050	µg/g	1.0	5/30/06	5/31/06
Ethylbenzene	ND	0.0050	µg/g	1.0	5/30/06	5/31/06
m,p-Xylene	ND	0.0050	μg/g	1.0	5/30/06	5/31/06
o-Xylene	ND	0.0050	μg/g	1.0	5/30/06	5/31/06
Surrogate: Cis-1,2-Dichloroethylene	87.8	71.8-135	% Rec	1.0	5/30/06	5/31/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	$\overline{\mathbf{DF}}$	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	μg/g	1.0	5/30/06	5/31/06

Client Sample ID: MW-15-10

Received: 5/18/06

Collected: 5/17/06 15:14

Lab ID: 0605418-06A

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup Reference: EPA 3550/3630/GCFID(LUFT)/8015B

<u>Parameter</u>	Result	<u>Limit</u>	Units	$\overline{\mathbf{DF}}$	Extracted	Analyzed
TPHC Diesel (C12-C22)	950	25	µg/g	25	5/30/06	6/6/06
TPHC Motor Oil	130	100	μg/g	10	5/30/06	6/6/06

Client Sample ID: MW-15-10

Received: 5/18/06

Collected: 5/17/06 15:14

Lab ID: 0605418-06B

Test Name: BTEX Reference: EPA 5035/EPA 8021B

<u>Parameter</u>		Result	<u>Limit</u>	<u>Units</u>	DF	Extracted	Analyzed
MTBE		ND	0.50	μg/g	10	5/30/06	5/30/06
Benzene		ND	0.050	μg/g	10	5/30/06	5/30/06
Toluene		ND	4.0	μg/g	100	5/30/06	5/30/06
Ethylbenzene		ND	10	μg/g	100	5/30/06	5/30/06
m,p-Xylene		ND	5.0	µg/g	100	5/30/06	5/30/06
o-Xylene		ND.	10	µg/g	100	5/30/06	5/30/06
Surrogate: Cis-	1,2-Dichloroethylene	84.8	71.8-135	% Rec	10	5/30/06	5/30/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

Parameter Result Limit Units Extracted **Analyzed** TPHC Gas (C6-C14) 100 μg/g 100 5/30/06 5/30/06

08-Jun-06

WorkOrder: 0605418

ANALYTICAL REPORT

Client Sample ID: MW-15-15

Received: 5/18/06

Collected: 5/17/06 15:20

Lab ID: 0605418-07A

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	<u>DF</u>	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	1.0	μg/g	1.0	5/25/06	5/26/06
TPHC Motor Oil	ND	10	μg/g	1.0	5/25/06	5/26/06

Client Sample ID: MW-15-15

Received: 5/18/06

Collected: 5/17/06 15:20

Lab ID: 0605418-07B

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	<u>DF</u>	Extracted	Analyzed
MTBE	ND	0.050	µg/g	1.0	5/30/06	5/31/06
Benzene	ND	0.0050	μg/g	1.0	5/30/06	5/31/06
Toluene	ND	0.0050	μg/g	1.0	5/30/06	5/31/06
Ethylbenzene	ND	0.0050	μg/g	1.0	5/30/06	5/31/06
m,p-Xylene	ND	0.0050	μg/g	1.0	5/30/06	5/31/06
o-Xylene	ND	0.0050	µg/g	1.0	5/30/06	5/31/06
Surrogate: Cis-1,2-Dichloroethylene	86.1	71.8-135	% Rec	1.0	5/30/06	5/31/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	<u>DF</u>	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	µg/g	1.0	5/30/06	5/31/06

Client Sample ID: MW-15-20

Lab ID: 0605418-08A

Received: 5/18/06

Collected: 5/17/06 15:30

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	1.0	µg/g	1.0	5/25/06	5/26/06
TPHC Motor Oil	ND	10	µg/g	1.0	5/25/06	5/26/06

08-Jun-06

WorkOrder: 0605418

ANALYTICAL REPORT

Client Sample ID: MW-15-20

Received: 5/18/06

Collected: 5/17/06 15:30

Lab ID: 0605418-08B

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	<u>DF</u>	Extracted	Analyzed
MTBE	ND	0.050	μg/g	1.0	5/30/06	5/31/06
Benzene	ND	0.0050	μg/g	1.0	5/30/06	5/31/06
Toluene	ND	0.0050	µg/g	1.0	5/30/06	5/31/06
Ethylbenzene	ND	0.0050	μg/g	1.0	5/30/06	5/31/06
m,p-Xylene	ND	0.0050	µg/g	1.0	5/30/06	5/31/06
o-Xylene	ND	0.0050	µg/g	1.0	5/30/06	5/31/06
Surrogate: Cis-1,2-Dichloroethylene	88.4	71.8-135	% Rec	1.0	5/30/06	5/31/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

Parameter	Result	<u>Limit</u>	<u>Units</u>	<u>DF</u>	Extracted	Analyzed
TPHC Gas (C6-C14)	4.1	1.0	µg/g	1.0	5/30/06	5/31/06

Client Sample ID: Rinsate Drum

Received: 5/18/06

Collected: 5/17/06 16:30

Lab ID: 0605418-09A

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	$\underline{\mathbf{DF}}$	Extracted	Analyzed
MTBE	ND	3.0	μg/L	1.0		5/22/06
Benzene	ND	0.50	μg/L	1.0		5/22/06
Toluene	ND	0.50	µg/L	1.0		5/22/06
Ethylbenzene	ND	0.50	μg/L	1.0		5/22/06
m,p-Xylene	ND	0.50	μg/L	1.0		5/22/06
o-Xylene	ND	0.50	µg/L	1.0		5/22/06
Surrogate: Cis-1,2-Dichloroethylene	88.4	85-115	% Rec	1.0		5/22/06

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	73	50	µg/Ľ	1.0		5/22/06

Client Sample ID: Rinsate Drum

Received: 5/18/06

Collected: 5/17/06 16:30

Lab ID: 0605418-09B

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	$\overline{ m DF}$	Extracted	Analyzed
TPHC Diesel (C12-C22)	210	50	μg/L	1.0	5/23/06	5/25/06
TPHC Motor Oil	ND	170	µg/L	1.0	5/23/06	5/25/06

North Coast Laboratories, Ltd.

Winzler and Kelly CLIENT:

0605418 Work Order: 00142803.11400 Blue Lake Forest Products Project:

QC SUMMARY REPORT

Date: 08-Jun-06

Method Blank

Run I Result L ND 0.0 Sethylene	ene ne ichloroethylene 7 MB-5/22/06 Batch ID: R41	Run ID: Limit 0.050 0.0050 0.0050 0.0050	ORGC8_0608	30B						
Result Limit SPK value SPK Ref Val % Rec Lo ND	ene le ichloroethylene 3 MB-5/22/06 Batch ID: R41.	0.050 0.0050 0.0050 0.0050				SedNo:				
ND 0.0050 ND 0.50	ene ne ichloroethylene) MB-5/22/06 Batch ID: R41	0.050 0.0050 0.0050 0.0050	SPK value		% Rec	LowLimit	HighLimit RP	D Ref Val	%RPD RPDLimit	Qual
ND 0.0050 Run ID: R41428 Test Code: BTXEW Units: µg/L Run ID: O.50 ND 0.50 0.1812 0.50 ND 0.50 0.1812 0.50 ND 0.50 Run ID: AST7% Run ID: AST7% ND 0.50 0.4913 1.0	tene ne ichloroethylene 7 MB-5/22/06 Batch ID: R41	0.0050 0.0050 0.0050	A A A A A A A A A A A A A A A A A A A		^^^^^	V = V =			**************************************	
ND 0.0050 ND 0.005 Result Limit SPK value SPK Ref Val % Rec Lo Lo ND 0.50	rene ne ichloroethylene 7 MB-5/22/06 Batch ID: R41	0.0050								
ND	ene ne ichloroethylene Datch ID: R41	0.0050			-					
ND	ichloroethylene MB-5/22/06 Batch ID: R41	0.0050								
Batch ID: R41428 Test Code: BTXEW Units: µg/L Run ID: ORGC8_060522B Result Limit SPK value SPK Ref Val % Rec Lo ND 0.50 0.1590 0.50 ND 0.50 ND 0.50 ND 0.50 Run ID: ORGC5_06066A Run ID: ORGC5_06066A Run ID: A10 Run ID: ORGC5_06066A	ichloroethylene 3 MB-5/22/06 Batch ID: R41									
Batch ID: R41428 Test Code: BTXEW Units: µg/L Run ID: ORGC8_060522B Result Limit SPK value SPK Ref Val % Rec Lo ND 3.0 ND 0.50 ND 0.50 ND 0.50 ND 0.50 ND 0.50 Run ID: ORGC5_06066A Result Limit SPK value SPK Ref Val % Rec Lo 87.7% Run ID: ORGC5_06066A Result Limit SPK value SPK Ref Val % Rec Lo 89.9%	ichloroethylene MB-5/22/06 Batch ID: R41	0.0050								
Batch ID: R41428 Test Code: BTXEW Units: µg/L Run ID: ORGC8_060522B Result Limit SPK value SPK Ref Val ND 0.50 0.1590 0.50 ND 0.50 ND 0.50 ND 0.50 Run ID: ORGC5_060606A Result Limit SPK value SPK Ref Val Result Result Limit SPK value SPK Ref Val Result Result Limit SPK Val Result R) MB-5/22/06 Batch ID: R41	0.10	1.00	0	88.9%	72	135	0		
Result Limit SPK value SPK Ref Val % Rec LowLimit HighLimit RPD Ref Val % Rec LowLimit RPD Ref Val % Rec RowLimit RPD Ref Val % Rec RPD Ref Val % RPD Ref		Test Code:	BTXEW	Units: µg/L		Analysis	Date 5/22/069	:41:04 PM	Prep Date	and the second s
ND 3.0		Run ID:	ORGC8_0605	22B		SeqNo:	594542			
ND 0.50 0.1590 0.50 ND 0.50 0.1812 0.50 ND 0.50 ND 0.50 ND 0.50 Run ID: 15799 Test Code: SGTPDMS Units: µg/g Run ID: ORGC5_060606A SegNo: S97993		Limit	SPK value	SPK Ref Val	% Rec	LowLimit		D Ref Val	%RPD RPDLimit	Qual
ND 0.50 0.50		3.0	The contraction			······································		***************************************		- Total
0.1590 0.50 ND 0.50 ND 0.50 ND 0.50 Satch ID: 15799 Test Code: SGTPDMS Units: μg/g Run ID: ORGC5_060606A Sesult Limit SPK value SPK Ref Val % Rec LowLimit HighLimit RPD Ref Value NATION NATIO		0.50								
ND 0.50		0.50								-
0.1812 0.50 ND 0.50 Batch ID: 15799 Test Code: SGTPDMS Units: µg/g Run ID: ORGC5_060606A Result Limit SPK value SPK Ref Val % Rec LowLimit HighLimit RPD Ref Value 2.04913 1.0		0.50								>
ND		0.50								-,
Batch ID: 15799 Test Code: SGTPDMS Units: µg/g Analysis Date 6/6/06 5:46:57 Al Run ID: ORGC5_060606A SeqNo: 597993 Result Limit SPK value SPK Ref Val % Rec LowLimit HighLimit RPD Ref Value Analysis Date 6/6/06 5:46:57 Al		0.50)
Batch ID: 15799 Test Code: SGTPDMS Units: µg/g Run ID: ORGC5_060606A Result Limit SPK value SPK Ref Val % Rec Lo		0,10	1.00	0	87.78	85	115	0		
Run ID: ORGC5_060606A Result Limit SPK value SPK Ref Val % Rec Lo		Test Code:	SGTPDMS	Units: µg/g	Mark the second	Analysis	Date 6/6/06 5:4	16:57 AM	Prep Date 5/30/06	Sickershild Readourement
Result Limit SPK value SPK Ref Val % Rec LowLimit 0.4913 1.0	Client ID:	Run ID:	ORGC5_0606	06A		SeqNo:	597993		•	
0.4913		Limit	SPK vatue	SPK Ref Val	% Rec	LowLimit	HighLimit RPD) Ref Val	%RPD RPDLimit	Qual
<u> </u>	TANIMA MININA MI	1.0		TO THE PROPERTY OF THE PROPERT		# DATA V A VARIABISIS STATE OF THE STATE OF	PANNA A Vil dem commune commune particles — PA Na Admin			
	TPHC Motor Oil	10								,

J - Analyte detected below quantitation limits ND - Not Detected at the Reporting Limit

Qualifiers:

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Winzler and Kelly CLIENT:

0605418 Work Order:

Project:

00142803.11400 Blue Lake Forest Products

QC SUMMARY REPORT

Method Blank

Sample ID MB-15802	Batch ID; 15802	Test Code	Test Code: TPHCGS	Units: µg/g	aksikkite takstasion zanappasa (k	Analysis	; Date 5/30,	Analysis Date 5/30/06 5:55:04 PM	Prep Date 5/30/06	9(
Client ID:		Run ID:	ORGC8_060530A	530A		SedNo:	596687	87		
Analyte	Result	Limit		SPK value SPK Ref Val	% Rec	LowLimit	HighLimit	LowLimit HighLimit RPD Ref Val	%RPD RPDLimit	it Qual
TPHC Gas (C6-C14)	0.4854	1,0	the different formation and the second and the seco	The state of the s				Land of the Control o		ſ
Sample ID MB-5/22/06	Batch ID: R41427	Test Code	Test Code: TPHCGW	Units: µg/L	Market State Commence of the C	Analysis	Date 5/22	Analysis Date 5/22/06 9:41:04 PM	Prep Date	
Client ID:		Run ID:	ORGC8_060522A	522A		SeqNo:	594530	30		
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	LowLimit HighLimit RPD Ref Val	%RPD RPDLimit	it Qual
TPHC Gas (C6-C14)	QN	50		And the state of t		The state of the s		manuscript of the selection of the second		
Sample ID MB-15775	Batch ID: 15775	Test Code	Test Code: TPHDMS	Units: µg/g	DOMESTIC STREET, CONTROL STREE	Analysis	Date 5/26/	Analysis Date 5/26/06 4:32:00 PM	Prep Date 5/25/06	9
Client ID:		Run ID:	ORGC7_060526B	526B		SeqNo:	596589	39		
Analyte	Result	Limit		SPK value SPK Ref Val	% Rec	LowLimit	HighLímit	LowLimit HighLimit RPD Ref Val	%RPD RPDLimit	it Quai
TPHC Diesel (C12-C22) TPHC Motor Oil	QN QN	1.0	**************************************						Avendus a management of the Artist Ar	
Sample ID MB-15769	Batch ID; 15769	Test Code	Test Code: TPHDMW Ur	Units: µg/L		Analysis	Date 5/25/	Analysis Date 5/25/06 12:26:56 AM	Prep Date 5/23/06	6
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	Sequence. LowLimit	595237 HighLimit F	595237 HighLimit RPD Ref Val	%RPD RPDLimit	t Quai
TPHC Diesel (C12-C22) TPHC Motor Oil	DN DN	50 170				* And the state of	1		The state of the s	Annual municipal management

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

North Coast Laboratories, Ltd.

CLIENT: Winzler and Kelly

Work Order: 0605418

Project: 00142803.11400 Blue Lake Forest Products

ınd Kelly

Laboratory Control Spike

QC SUMMARY REPORT

Date: 08-Jun-06

Sample ID LCS-15802	Batch ID: 15802	Test Code: BTXES	BTXES	Units: µg/g	amanusadan karataran	Analysis	5 Date 5/31//	Analysis Date 5/31/06 5:04:38 AM	Prep D	Prep Date 5/30/06	
Client ID:		Run ID:	ORGC8_060530B	308		SeqNo:	596737	7	-		
Analyte	Result	Cmt	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MT8E.	0.3442	0.050	0.400	0	86.1%	75	124	0			
Benzene	0.04565	0.0050	0.0500	0	91.3%	80	128	0			
Toluene	0.04861	0.0050	0.0500	0	97.2%	85	126	0			
Ethylbenzene	0.04807	0.0050	0.0500	0	96.1%	80	126	0			
m,p-Xylene	0.09234	0.0050	0.100	0	92.3%	84	130	0			
o-Xylene	0.04683	0.0050	0.0500	0	93.7%	84	125	0			
Cis-1,2-Dichloroethylene	0.961	0.10	1.00	0	96.1%	72	135	0			
Sample ID LCSD-15802	Batch ID; 15802	Test Code: BTXES	BTXES	Units: µg/g		Analysis	Date 5/31/0	Analysis Date 5/31/06 5:39:16 AM	Prep Da	Prep Date 5/30/06	HATELED STATE OF THE PARTY OF T
Client ID:		Run ID:	ORGC8_060530B	30B		SeqNo:	596738				
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimít	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	0.3364	0.050	0.400	0	84.1%	75	124	0.344	2.31%	15	
Benzene	0.04442	0.0050	0.0500	0	88.8%	80	128	0.0457	2.72%	<u>ਨ</u>	
Toluene	0.04742	0.0050	0.0500	0	94.8%	85	126	0.0486	2.49%	15	
Ethylbenzene	0.04729	0.0050	0.0500	0	94.6%	80	126	0.0481	1.64%	15	
m,p-Xylene	0.09100	0.0050	0.100	0	91.0%	84	130	0.0923	1.46%	15	
o-Xylene	0.04593	0.0050	0.0500	0	91.9%	84	125	0.0468	1.94%	15	
Cis-1,2-Dichloroethylene	0.958	0.10	1.00	0	95.8%	72	135	0.961	0.228%	15	

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Winzler and Kelly

Work Order: 0605418

Project: 00142803.11400 Blue Lake Forest Products

QC SUMMARY REPORT

Laboratory Control Spike

Client ID: Analyte MTBE Benzene Toluene		200	- COCC -	Units: µg/L		Analysi	s Date 5/22	Analysis Date 5/22/06 4:49:07 PM	Prep Date	ate	
Analyte MTBE Benzene Toluene		Run ID:	ORGC8_060522B	522B		SeqNo:	594539	39	•		
MTBE Benzene Toluene	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene Toluene	38.54	3.0	40.0	0	96.4%	85	115	0			Property of the control of the contr
Toluene	4.459	0.50	5.00	0	89.2%	85	115	• 0			
	4.681	0.50	5.00	0	93.6%	85	115	0			
Ethylbenzene	4.630	0.50	5.00	0	92.6%	85	115	0			
m,p-Xylene	9.581	0,50	10.0	0	95.8%	85	115	0			
o-Xylene	4.824	0.50	5.00.	0	96.5%	85	115				
Cis-1,2-Dichloroethylene	1.06	0.10	1.00	0	107%	85	115	0			
Sample ID LCSD-06316 B	Batch (D: R41428	Test Code: BTXEW	BTXEW	Units: µg/L		Analysis	5 Date 5/22	Analysis Date 5/22/06 5:25:49 PM	Prep Date	ate	TO THE OWNER WHEN THE PARTY OF
Client ID:		Run ID:	ORGC8_060522B	522B		SeqNo:	594540	40			
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	38.85	3.0	40.0	0	97.1%	85	115	38.5	0.785%	15	144440000000000000000000000000000000000
Benzene	4.401	0.50	5.00	0	88.0%	85	115	4.46	1.30%	15	
Toluene	4.598	0.50	5.00	0	92.0%	85	115	4.68	1.78%	. fc	
Ethylbenzene	4,568	0.50	5.00	0	91.4%	85	115	4.63	1.34%	ं र	
m,p-Xylene	9.475	0.50	10.0	0	94.7%	85	115	9.58	1.12%	15	
o-Xylene	4.738	0.50	5.00	0	94.8%	85	115	4.82	1.79%	5	
Cis-1,2-Dichloroethylene	1.04	0.10	1.00	0	104%	85	115	1.06	1.93%	15	
Sample ID LCS-15799 Ba	Batch ID: 15799	Test Code:	Test Code: SGTPDMS	Units: µg/g	Translation of the behavior was	Analysis	Date 6/6/0	Analysis Date 6/6/06 3:01:38 AM	Prep Da	Prep Date 5/30/06	Name of the last o
Client ID:		Run ID:	ORGC5_060606A	06A		SeqNo:	597991	7			
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	7.863	1.0	10.0	0	78.6%	29	111	0	M/4	77000	
	00:01	0	20.0	0	77.7%	46	114	0			

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Winzler and Kelly

Work Order: 0605418

Project: 00142803.11400 Blue Lake Forest Products

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

Sample ID CCSD-15799	Batch ID: 15799	Test Code:	Test Code: SGTPDIMS	Units: µg/g		Analysi	Analysis Date 6/6/06 3:48:50 AM	3:48:50 AM	Pren D	Prep Date 5/30/06	National Control of the Control of t
Client ID:		Run ID:	ORGC5_060606A	606A		SeqNo:	597992		L		
Analyte	Result	ĽΨİ	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit R	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22) TPHC Motor Oil	6.897	1.0	10.0	0 0	69.0%	29	- ·	7.86	13.1%	£ :	
teathering and almost an agraphy open play and project and an arrange of the state	TEACHAINE AN AN AN AN AN AN AN AN AN AN AN AN AN				B/ 5:15	ř	<u>†</u>	0.51	14,3%	2	
Sample ID LCS-15802-G	Batch ID: 15802	Test Code:	Test Code: TPHCGS	Units: µg/g		Analysis	Analysis Date 5/31/06 6:48:33 AM	6:48:33 AM	Prep D	Prep Date 5/30/06	ACKNINGS - THANKS IN
Client ID:		Run ID;	ORGC8_060530A	530A		SeqNo:	596702				
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit RPD Ref Val	PD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)	10.79	1.0	10.0	0	108%	102	128	0	- P. (1)		
Sample ID LCSD-15802-G	Batch ID: 15802	Test Code: TPHCGS	TPHCGS	Units: µg/g		Analysis	Analysis Date 5/31/06 7:23:10 AM	7:23:10 AM	Prep Da	Prep Date 5/30/06	WWW.
Client ID:		Run ID:	ORGC8_060530A	330A		SeqNo:	596703				
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit RPD Ref Val	⊃D Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)	11.36	1.0	10.0	0	114%	102	128	10.8	5.08%	15	
Sample ID LCS-06317	Batch ID: R41427	Test Code:	Test Code: TPHCGW	Units: µg/L	THE PERSON NAMED AND PARTY OF THE PE	Analysis	Analysis Date 5/22/06 7:15:36 PM	7:15:36 PW	Prep Date	1te	MEDITALISMENT
Client ID:		Run ID:	ORGC8_060522A	122A		SeqNo:	594527				
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit RPD Ref Val	^o D Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)	454.0	20	200	0	%8.06	85	115	0			
Sample ID LCSD-06317	Batch ID: R41427	Test Code: TPHCGW	TPHCGW	Units: µg/L	Santa Aranga pangkan da da da da da da da da da da da da da	Analysis	Analysis Date 5/22/06 7:52:02 PM	7:52:02 PW	Prep Date	te	DASSESSESSESSESSESSESSESSESSESSESSESSESSE
Client ID:		Run ID:	ORGC8_060522A	22A		SeqNo:	594528				
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit RPD Ref Val	⁰D Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)	457.8	50	200	0	91.6%	85	115	454	0.832%	5	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Winzler and Kelly CLIENT:

0605418 Work Order:

00142803.11400 Blue Lake Forest Products Project:

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID LCS-15775	Batch ID: 15775	Test Code	Test Code: TPHDMS	Units: µg/g	MANAGO NA NA NA NA NA NA NA NA NA NA NA NA NA	Analysis	Date 5/26/	Analysis Date 5/26/06 2:30:01 PM	Pren D	Pren Date 5/25/06	
Client ID:		Run ID:	ORGC7_060526B	526B		SeqNo:	596586	9	1		
Analyte	Result	rimit Cimit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLímit	Qua
TPHC Diesel (C12-C22) TPHC Motor Oil	11.87	1.0	10.0	0	119%	70	130	0	To be the second of the second	V	W. 6
Sample ID LCSD-15775	Batch ID: 15775	Test Code	Test Code: TPHDMS	Units: µg/g		Analysis	Date 5/26/	Analysis Date 5/26/06 2:50:39 PM	Prep Da	Prep Date 5/25/06	BENNANN BERBERS IN
Client ID:		Run ID:	ORGC7_060526B	326B		SeqNo:	596587	4			
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22) TPHC Motor Oil	10.93 22.78	1.0	10.0	0	109%	70	130	11.9	8.18%	र प	Andrew Private Vision
Sample ID LCS-15769	Batch ID: 15769	Test Code	Test Code: TPHDMW	Units: µg/L		Analysis	Date 5/24/(Analysis Date 5/24/06 9:03:48 PM	Prep Da	Prep Date 5/23/06	WWW.WWW.WWW.
Client ID:		Run ID:	ORGC7_060524B	24B		SeqNo:	595234	₹£	•		
Analyte	Result	Limit	SPK value	SPK value SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22) TPHC Motor Oil	463.9	50	500 1,000	0	92.8%	72 71	124	0	A Company of the Comp		
Sample ID LCSD-15769 Client ID:	Batch ID: 15769	Test Code: Run ID:	Test Code: TPHDMW Ur Run ID: ORGC7_060524B	Units: µg/L 24B	100 BO 100 BO 100 BO 100 BO 100 BO 100 BO 100 BO 100 BO 100 BO 100 BO 100 BO 100 BO 100 BO 100 BO 100 BO 100 B	Analysis SeqNo:	Date 5/24/06 595235	Analysis Date 5/24/06 9:24:03 PM SeqNo: 595235	Prep Da	Prep Date 5/23/06	STINNKAI (COMMENDO) SAN
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22) TPHC Motor Oil	454.1 1,050	50	500	0	90.8%	72	124	464	2.13%	15	5

Qualifiers:

J - Analyte detected below quantitation limits ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

NORTH COAST	LABORATORIES LTD.	5680 West End Road • Arcata • CA 95521-9202 707-879-4649 Fav 707-879-6831
E	TO TO	N

Chain of Custody

LABORATORY NUMBER: 00.05 41%	TAT: \$\tag{24} \text{Hr} \$\tag{48} \text{Hr} \$\tag{5} \text{Day} \$\tag{5.7} \text{Day}	PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES	REPORTING REQUIREMENTS: State Forms	Freiminary: FAX□ Verbai□ By:/	CONTAINER CODES: 1—1/2 gal. pl; 2—250 ml pl;	5—500 ml pl, 4—1 L Nagene, 5—250 ml bC, 6—500 ml BC; 7—1 L BC; 8—1 L cg. 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar;
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/U/-822-4649 Fax /U/-822-683			13			
Ò,	S	Z Z	10 10 10 10 10 10 10 10 10 10 10 10 10 1	c	rint):	PROJECT INFORMATION
\		mvoice (Report to	ign & Pi	
	Attention:	Results & Invoice to: WINTSON & Kell W. Address: 63 Thu Rd St.	Phone:	Copies of Report to:	Sampler (Sign & Print):	
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Sampler (Sign & Print):	PROJECT INFORMATION	Project Number: 00 H236	Project Name: DIME LAKE	Purchase Order Number:	ABID SAMPLEID	9-27-34		- 076 - 91 - MM				

MECENCE BY (Sign)	PRIOR AUTHORIZATION IS REQUIRED FOR	REPORTING REQUIREMENTS: State For Preliminary: FAX□ Verbal□ By:/_ Final Report: FAX□ Verbal□ By:/	CONTAINER CODES: 1—1/2 gal. pl; 2—250 ml 3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 m 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz g 13—brass tube; 14—other PRESERVATIVE CODES: a—HNO ₃ ; b—HCl; c—d—Na ₂ S ₂ O ₃ ; e—NaOH; f—C ₂ H ₃ O ₂ Cl; g—other	SAMPLE CONDITION/SPECIAL INSTRUC											SAMPLE DISPOSAL	
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STRUCTIONS

HCl; c—H₂SO₄;

Soil; O=Other.	
md Water;	
GW=Ground	
e Water; GW	
V=Surface	
uent; SW/	
; Inf-Infl	
er; Eff=Efflueni	
Water; Eff=Effluent; Inf=	
. <u>=</u>	
: DW=	
MATRIX	
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Bus Hand

CHAIN OF CUSTODY SEALS Y/N/NA

SHIPPED VIA: UPS Air-Ex Fed-Ex

☐ NCL Disposal of Non-Contaminated

□ Pickup

□ Return

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RELINQUISHED BY (Sign & Print)

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT